STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL	1. WELL NAME and NUMBER: BONANZA 1023-6D1AS
2. TYPE OF WORK: DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	3. FIELD OR WILDCAT: NATURAL BUTTES
4. TYPE OF WELL: Gas Well Coalbed Methane Well: NO	5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. OPERATOR PHONE: 720 929-6007
8. ADDRESS OF OPERATOR: P.O. Box 173779, Denver, CO, 80217	9. OPERATOR E-MAIL: Kathy.SchneebeckDulnoan@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE): UTU38419	11. MINERAL OWNERSHIP: FEDERAL ◉ INDIAN ○ STATE ○ FEE ○
	12. SURFACE OWNERSHIP: FEDERAL ◉ INDIAN ○ STATE ○ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS: YES ◉ (Submit Commingling Application) NO ○
	19. SLANT: VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	904 FNL 1942 FWL	NENW	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	195 FNL 1054 FWL	NWNW	6	10.0 S	23.0 E	S
At Total Depth	195 FNL 1054 FWL	NWNW	6	10.0 S	23.0 E	S

21. COUNTY	22. DISTANCE TO NEAREST LEASE LINE (Feet)	23. NUMBER OF ACRES IN DRILLING UNIT
UINTAH	195	516
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed): 294	26. PROPOSED DEPTH: MD: 8802 TVD: 8612
27. ELEVATION - GROUND LEVEL: 5150	28. BOND NUMBER: WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE: Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME: Gina Becker	TITLE: Regulatory Analyst II	PHONE: 720 929-6086
SIGNATURE	DATE: 01/03/2011	EMAIL: gina.becker@anadarko.com
API NUMBER ASSIGNED: 43047514500000	APPROVAL: Permit Manager	

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	8802		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 Buttress	0	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	11	8.625	0	2130		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	0	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-6D1AS

Surface:	904 FNL / 1942 FWL	NENW	Lot 3
BHL:	195 FNL / 1054 FWL	NWNW	Lot 4

Section 6 T10S R23E

Unitah, Utah
Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1246	
Birds Nest	1515	Water
Mahogany	1882	Water
Wasatch	4285	Gas
Mesaverde	6446	Gas
MVU2	7428	Gas
MVL1	8009	Gas
TVD	8612	
MD	8802	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8,612' TVD, approximately equals 5,276 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,381 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated* with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background
In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

'APIWellNo:43047514500000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 28, 2010	
WELL NAME	**BONANZA 1023-6D1AS**		TD	8,612' TVD	8,802' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,149'
SURFACE LOCATION	NENW 904 FNL 1942 FWL	Sec 6	T 10S	R 23E	Lot 3
	Latitude: 39.982757	Longitude: -109.371912			NAD 83
BTM HOLE LOCATION	NWNW 195 FNL 1054 FWL	Sec 6	T 10S	R 23E	Lot 4
	Latitude: 39.984700	Longitude: -109.375096			NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			11"	8-5/8", 28#, IJ-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @	1,246'
Top of Birds Nest @	1,515'
Mahogany @	1,882'
Preset f/ GL @	2,130' MD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @	4,285'

Mud logging program TBD

Cased hole logging program from TD - surf csg

Mverde @	6,446' TVD
MVU2 @	7,428' TVD
MVU1 @	8,009' TVD

			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-12.0 ppg

Max anticipated Mud required 12.0 ppg

TD @ 8,612' TVD 8,802' MD

'APIWellNo:43047514500000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,130	28.00	IJ-55	LTC	0.95	1.89	5.78
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,802	11.60	I-80	BTC	2.24	1.18	3.12

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.53

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,381 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,276 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,630'	65/35 Poz + 6% Gel + 10 pps gilsonite	150	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,782'	Premium Lite II +0.25 pps	270	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel	970	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

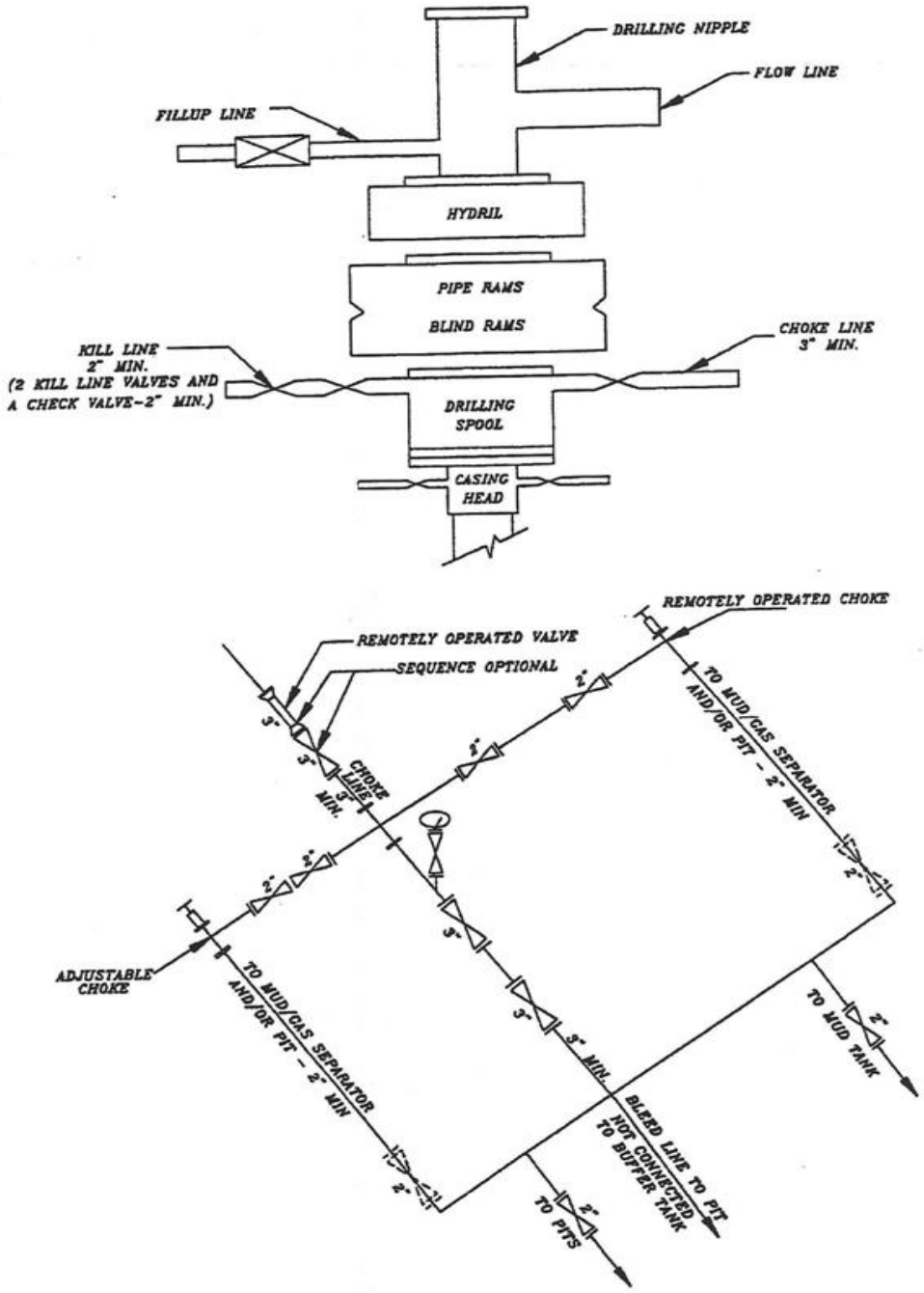
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
Emile Goodwin / Perry Daughtrey

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

'APIWellNo:43047514500000'

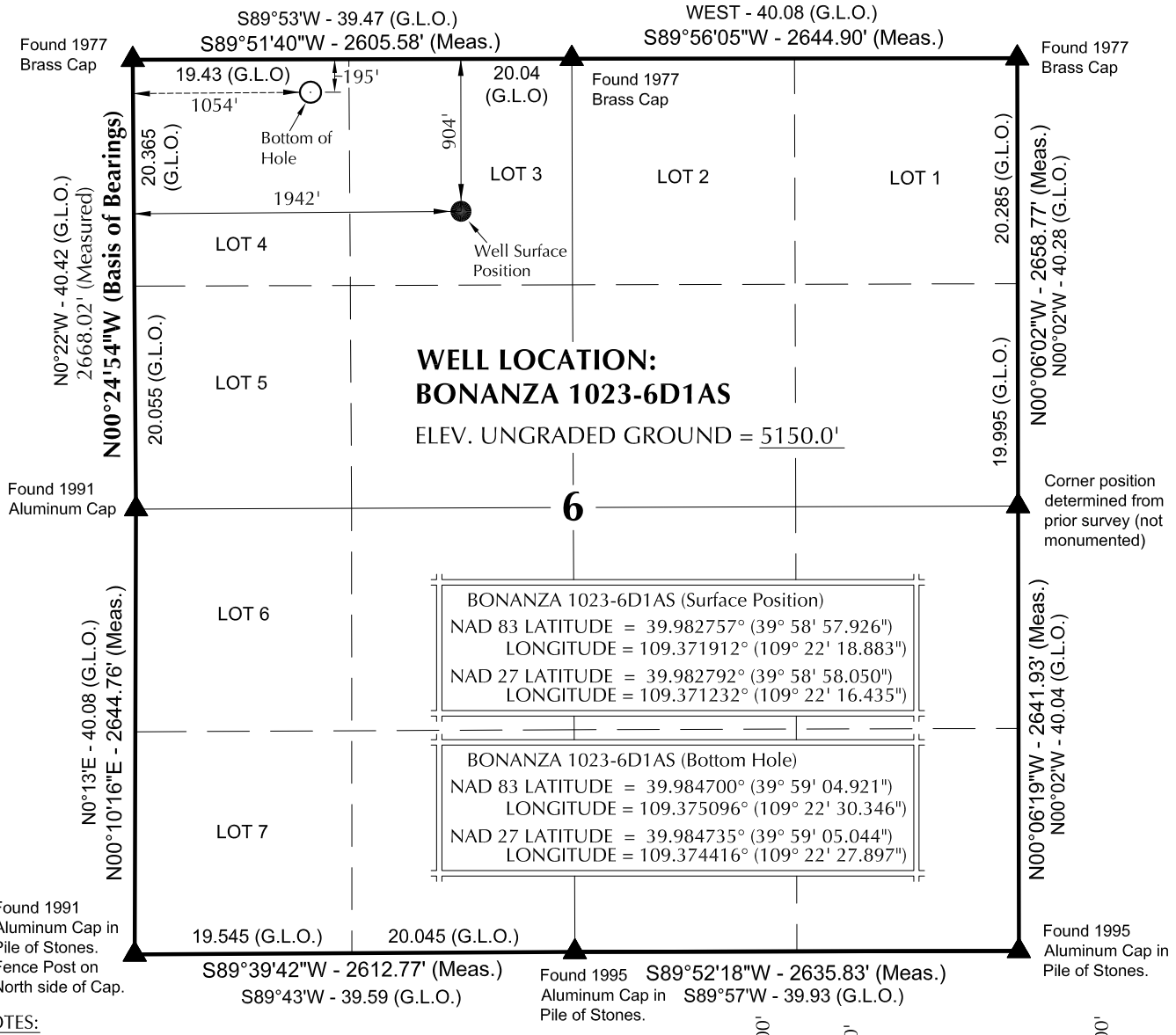
EXHIBIT A
BONANZA 1023-6D1AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

'APIWellNo:43047514500000'

T10S, R23E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N51°38'07"W 1139.22' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R SLAUGH STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: BONANZA 1023-6C

BONANZA 1023-6D1AS
WELL PLAT
195' FNL, 1054' FWL (Bottom Hole)
LOT 4 OF SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-09-10	SURVEYED BY: D.J.S.	SHEET NO: 3
DATE DRAWN: 03-09-10	DRAWN BY: K.H.G.	3 OF 17
SCALE: 1" = 1000'	Date Last Revised:	

'APIWellNo:43047514500000'

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
BONANZA 1023-6D3AS	39°58'57.951" 39.982764°	109°22'19.138" 109.371983°	39°58'58.074" 39.982798°	109°22'16.690" 109.371303°	902' FNL 1922' FWL	39°58'58.590" 39.982942°	109°22'37.538" 109.377094°	39°58'58.713" 39.982976°	109°22'35.089" 109.376414°	835' FNL 490' FWL
BONANZA 1023-6D1DS	39°58'57.939" 39.982761°	109°22'19.010" 109.371947°	39°58'58.062" 39.982795°	109°22'16.562" 109.371267°	903' FNL 1932' FWL	39°59'01.264" 39.983685°	109°22'31.202" 109.375334°	39°59'01.388" 39.983719°	109°22'28.754" 109.374654°	565' FNL 985' FWL
BONANZA 1023-6D1AS	39°58'57.926" 39.982757°	109°22'18.883" 109.371912°	39°58'58.050" 39.982792°	109°22'16.435" 109.371232°	904' FNL 1942' FWL	39°59'04.921" 39.984700°	109°22'30.346" 109.375096°	39°59'05.044" 39.984735°	109°22'27.897" 109.374416°	195' FNL 1054' FWL
BONANZA 1023-6C1CS	39°58'57.912" 39.982753°	109°22'18.755" 109.371876°	39°58'58.036" 39.982788°	109°22'16.307" 109.371196°	906' FNL 1952' FWL	39°59'03.010" 39.984170°	109°22'15.611" 109.371003°	39°59'03.134" 39.984204°	109°22'13.163" 109.370323°	390' FNL 2200' FWL
BONANZA 1023-6C4BS	39°58'57.900" 39.982750°	109°22'18.629" 109.371841°	39°58'58.023" 39.982784°	109°22'16.181" 109.371161°	907' FNL 1962' FWL	39°58'58.832" 39.983009°	109°22'14.935" 109.370815°	39°58'58.955" 39.983043°	109°22'12.488" 109.370135°	813' FNL 2250' FWL
BONANZA 1023-6C	39°58'57.888" 39.982747°	109°22'18.500" 109.371806°	39°58'58.011" 39.982781°	109°22'16.053" 109.371126°	908' FNL 1972' FWL					

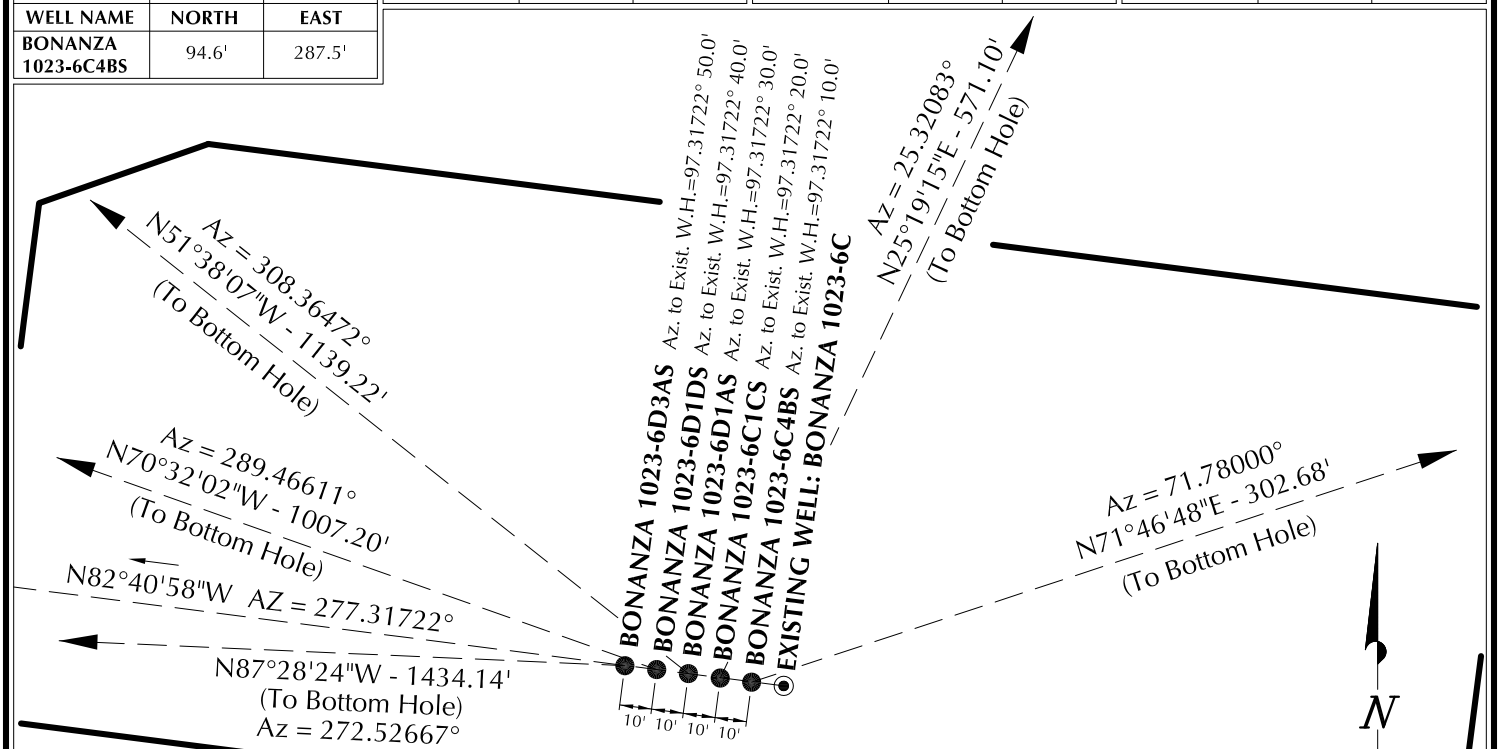
RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST
BONANZA 1023-6D3AS	63.2'	-1432.7'
BONANZA 1023-6C4BS	94.6'	287.5'

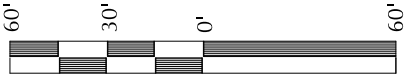
WELL NAME	NORTH	EAST
BONANZA 1023-6D1DS	335.6'	-949.6'

WELL NAME	NORTH	EAST
BONANZA 1023-6D1AS	707.1'	-893.2'

WELL NAME	NORTH	EAST
BONANZA 1023-6C1CS	516.2'	244.3'



BASIS OF BEARINGS IS THE WEST LINE OF THE NW $\frac{1}{4}$ OF SECTION 6, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°24'54"W.



SCALE

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

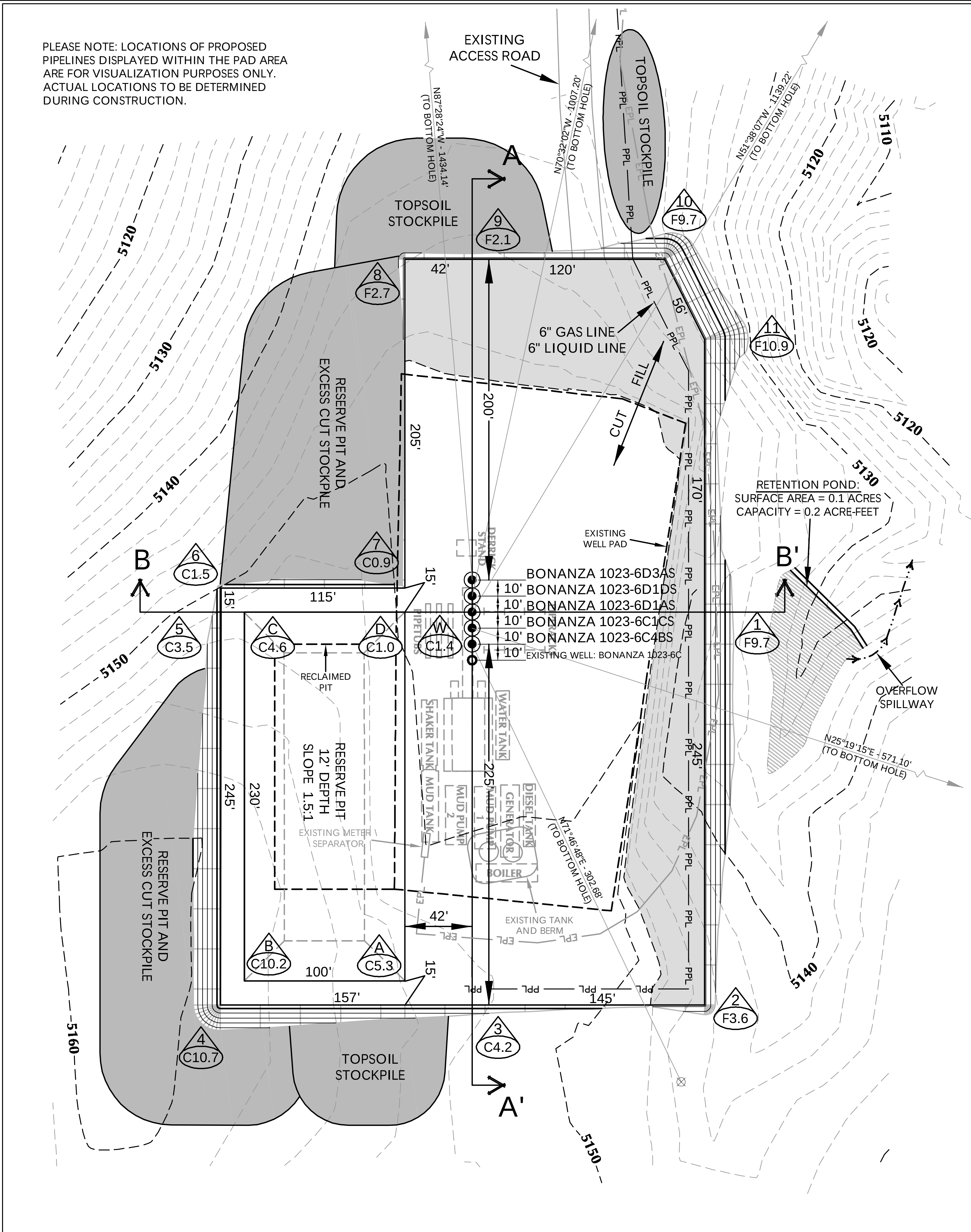
WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-6D3AS, BONANZA 1023-6D1DS, BONANZA 1023-6D1AS, BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-09-10	SURVEYED BY: D.J.S.	SHEET NO: **6**
DATE DRAWN: 03-09-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'	Date Last Revised: 06-15-10 K.O.B.	6 OF 17

'APIWellNo:43047514500000'



WELL PAD - BONANZA 1023-6C DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5150.0'
FINISHED GRADE ELEVATION = 5148.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.01 ACRES
TOTAL DAMAGE AREA = 5.68 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 9,772 C.Y.
TOTAL FILL FOR WELL PAD = 6,104 C.Y.
TOPSOIL @ 6" DEPTH = 1,503 C.Y.
EXCESS MATERIAL = 3,668 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 7,780 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 29,550 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

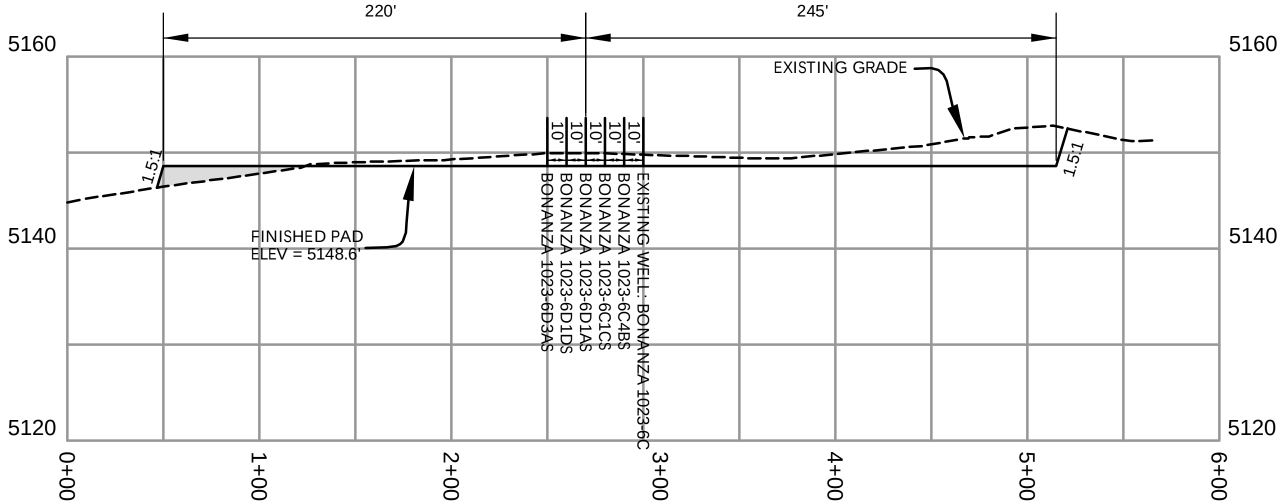
WELL PAD - LOCATION LAYOUT
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

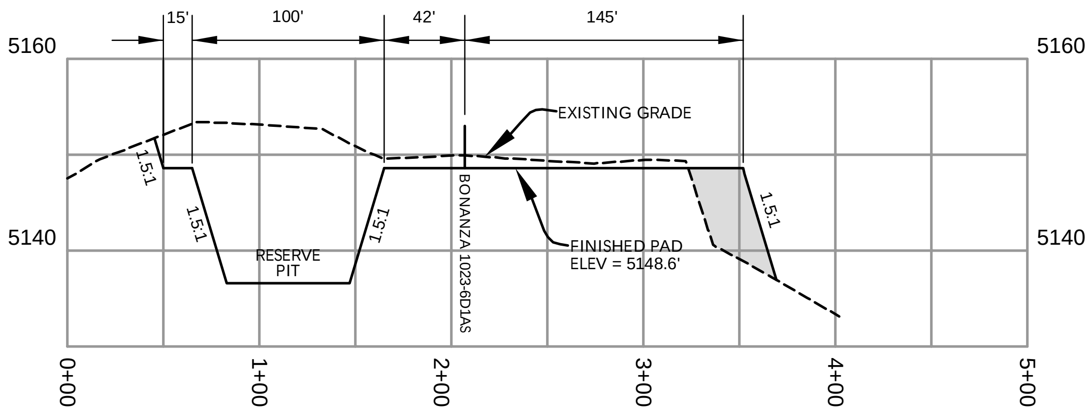
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60'	Date: 4/7/10	SHEET NO: 7
REVISED:	RAW 8/6/10	7 OF 17

K:\ANADARKO\2010_12_BON_FOCUS_SEC_6-1023\DWGS\BONANZA 1023-6C\BONANZA 1023-6C 20100723.dwg, 8/6/2010 1:03:33 AM



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

WELL PAD - CROSS SECTIONS
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

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CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
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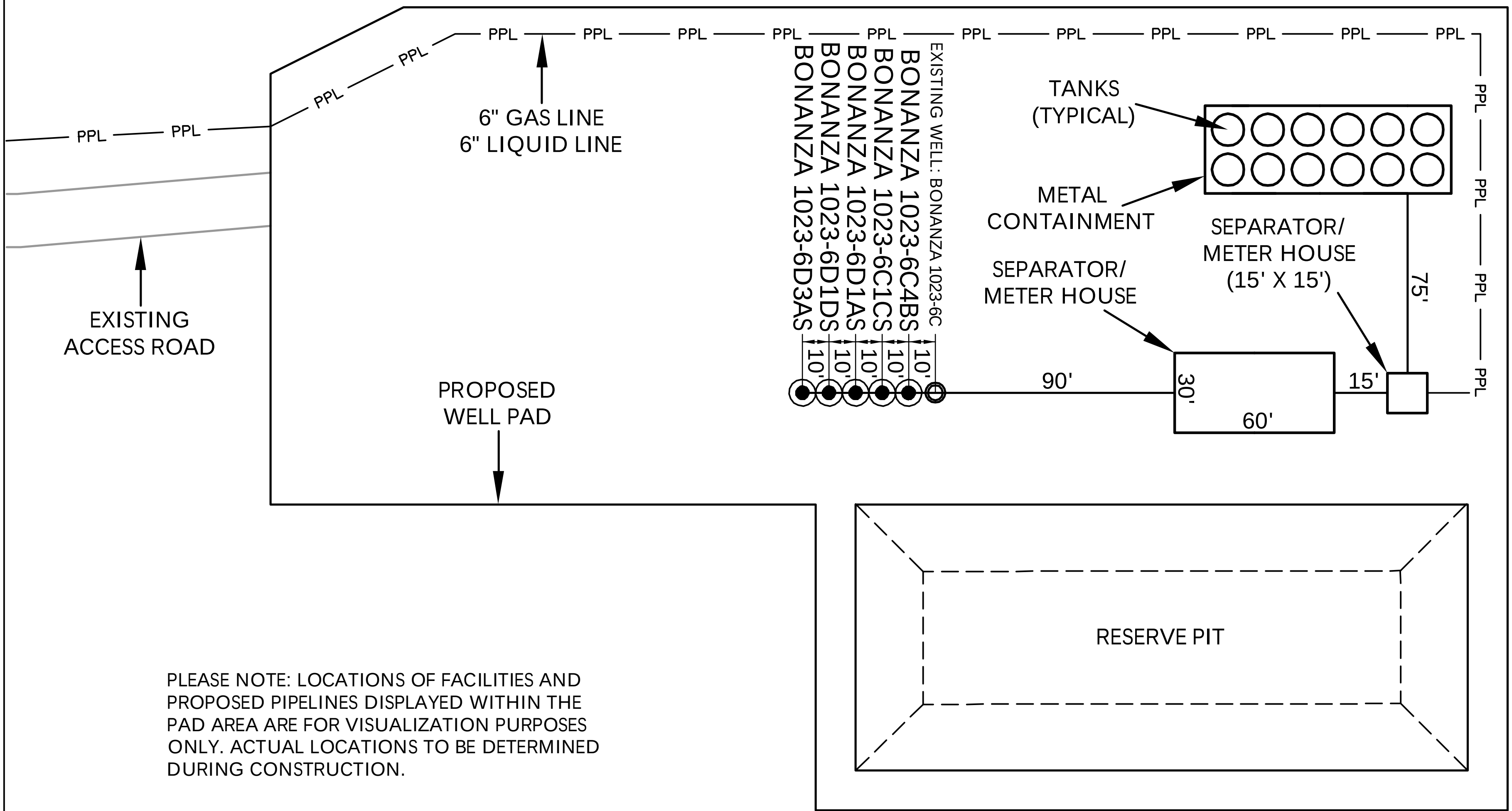
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100'	Date: 4/7/10	SHEET NO: 8
REVISED:	RAW 8/6/10	8 OF 17



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

◎	EXISTING WELL LOCATION
◉	PROPOSED WELL LOCATION
PPL	PROPOSED PIPELINE
EPL	EXISTING PIPELINE

N

HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60'	Date: 4/7/10	SHEET NO:
REVISED:	RAW 8/6/10	9 — 9 OF 17

'APIWellNo:43047514500000'

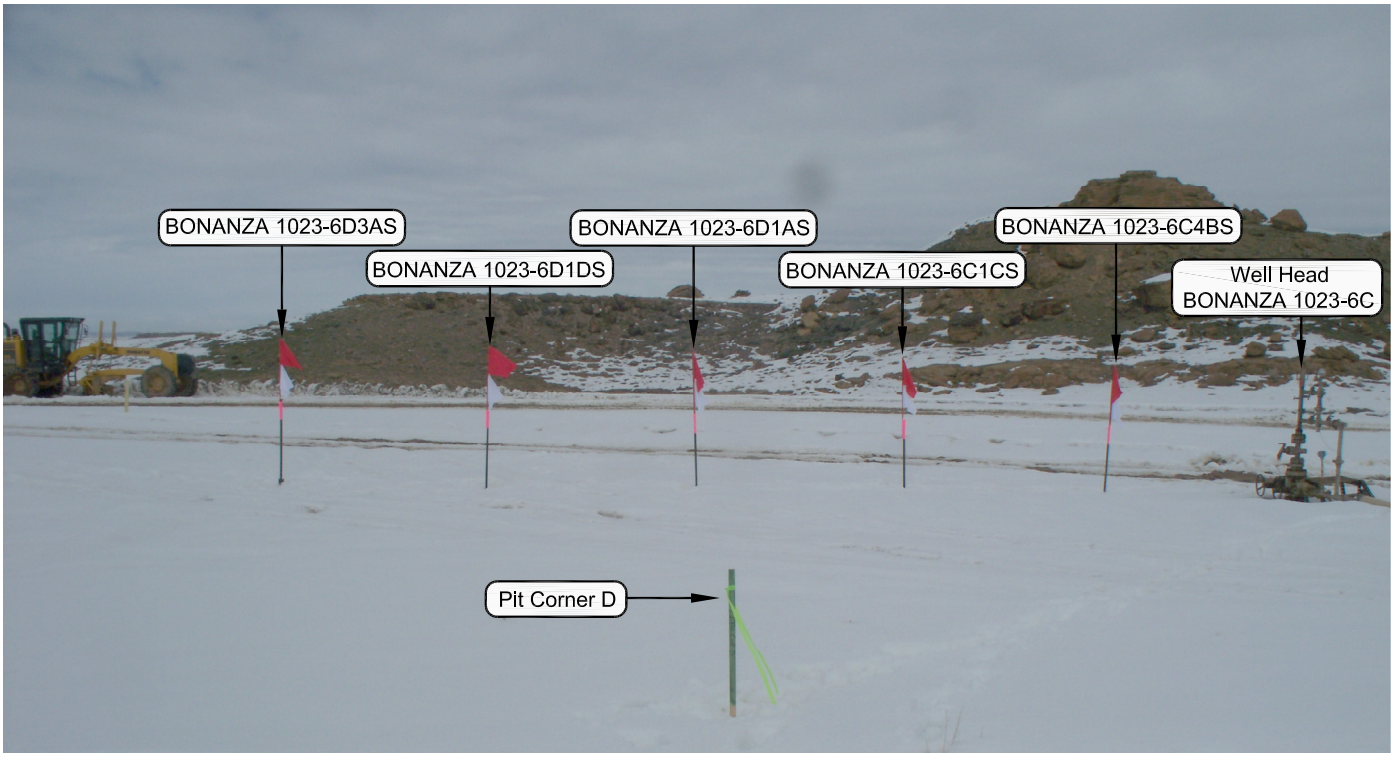


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE **CAMERA ANGLE: NORTHEASTERLY**

PHOTO VIEW: FROM EXISTING ACCESS ROAD **CAMERA ANGLE: EASTERLY**

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

LOCATION PHOTOS
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609
CONSULTING, LLC
371 Coffeen Avenue
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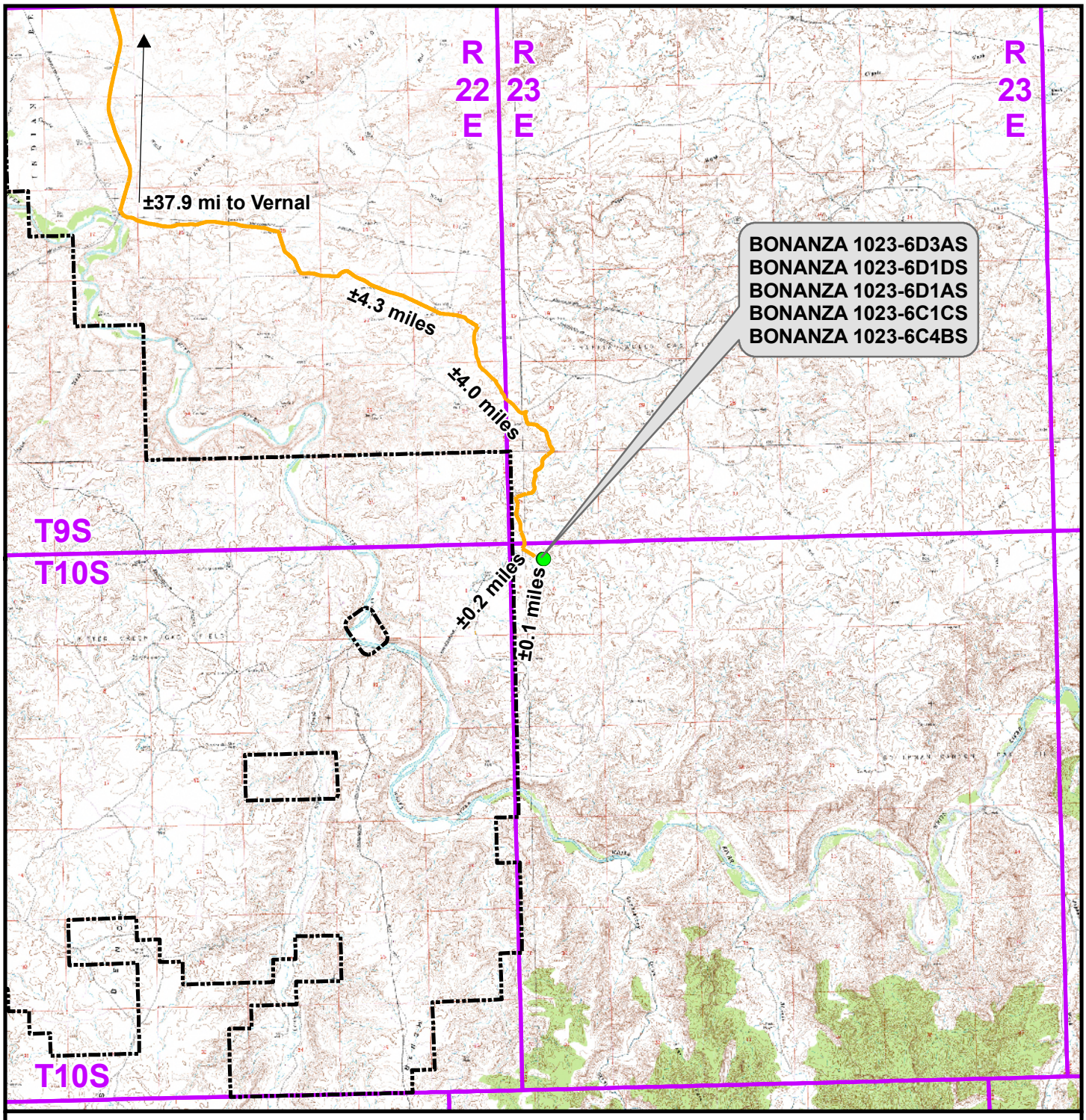
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-09-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO: 10
DATE DRAWN: 03-09-10	DRAWN BY: K.H.G.	10 OF 17
Date Last Revised:		

'APIWellNo:43047514500000'



Legend

Distance From Well Pad - BONANZA 1023-6C To Unit Boundary: ±1,922ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

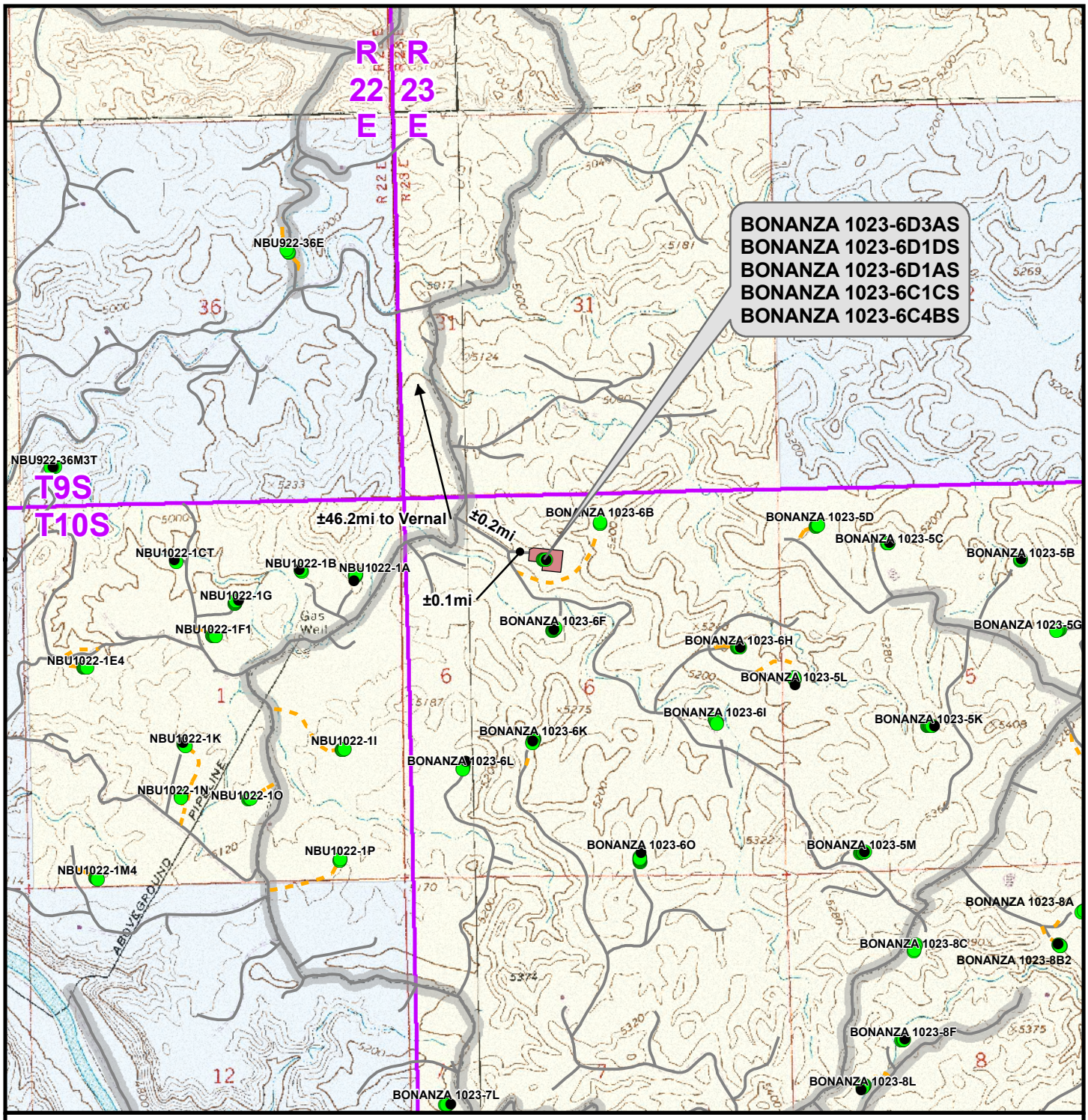
TOPO A
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000		NAD83 USP Central	Sheet No: 11 of 17
Drawn: TL	Date: 13 Apr 2010		
Revised: JID	Date: 6 Aug 2010		

'APIWellNo:43047514500000'



Legend

Total Proposed Road Length: ±0ft

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

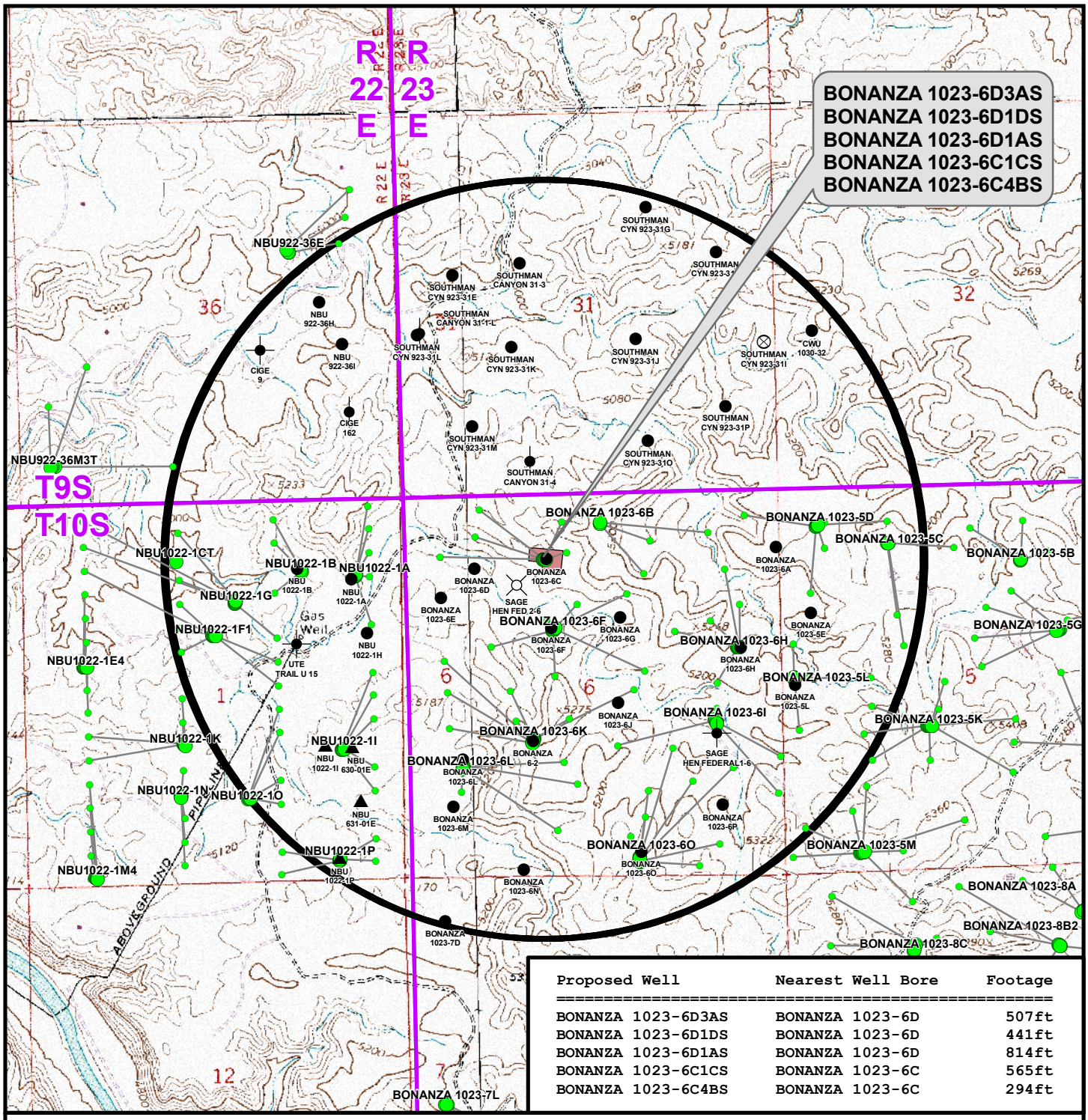
TOPO B
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	
Drawn: TL	Date: 13 Apr 2010	12	12 of 17
Revised: JID	Date: 6 Aug 2010		

'APIWellNo:43047514500000'



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6D3AS	BONANZA 1023-6D	507ft
BONANZA 1023-6D1DS	BONANZA 1023-6D	441ft
BONANZA 1023-6D1AS	BONANZA 1023-6D	814ft
BONANZA 1023-6C1CS	BONANZA 1023-6C	565ft
BONANZA 1023-6C4BS	BONANZA 1023-6C	294ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

TOPO C
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
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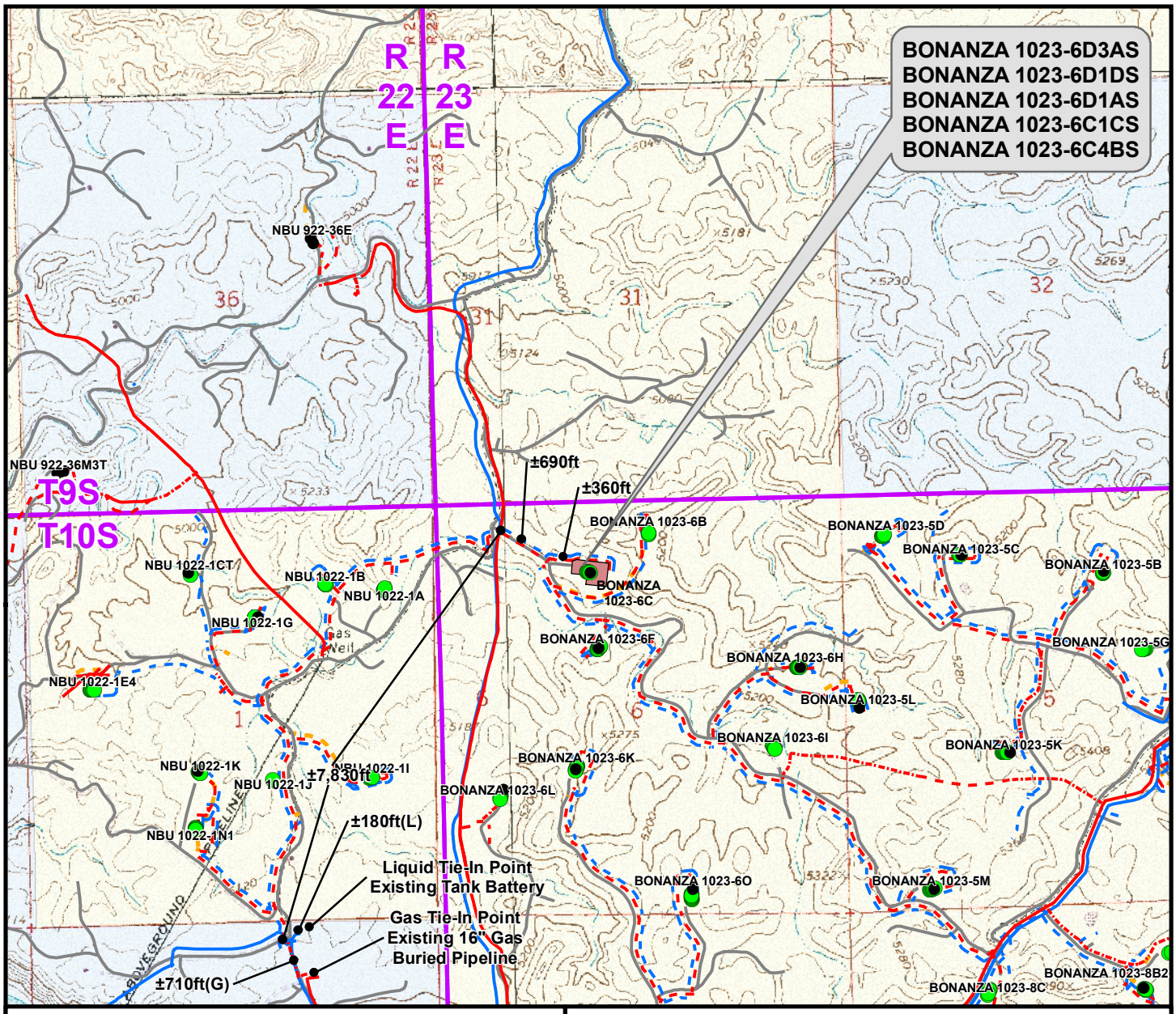
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13 of 17	
Drawn: TL	Date: 13 Apr 2010		
Revised: JID	Date: 6 Aug 2010		

'APIWellNo:43047514500000'



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±630ft
Proposed 6" (Edge of Pad to Road Intersection)	±360ft
Proposed 6" (Road Intersection to Seven Sisters Road Intersection)	±690ft
Proposed 6" (Seven Sisters Road Intersection to Existing Tank Battery)	±8,010ft
TOTAL PROPOSED LIQUID PIPELINE =	±9,690ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±630ft
Proposed 6" (Edge of Pad to Proposed 16" Pipeline)	±360ft
Proposed 16" (Proposed 16" Pipeline to Seven Sisters Road Intersection)	±690ft
Proposed 16" (Seven Sisters Road Intersection to Existing 16" Pipeline)	±8,540ft
TOTAL PROPOSED GAS PIPELINE =	±10,220ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

TOPO D
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
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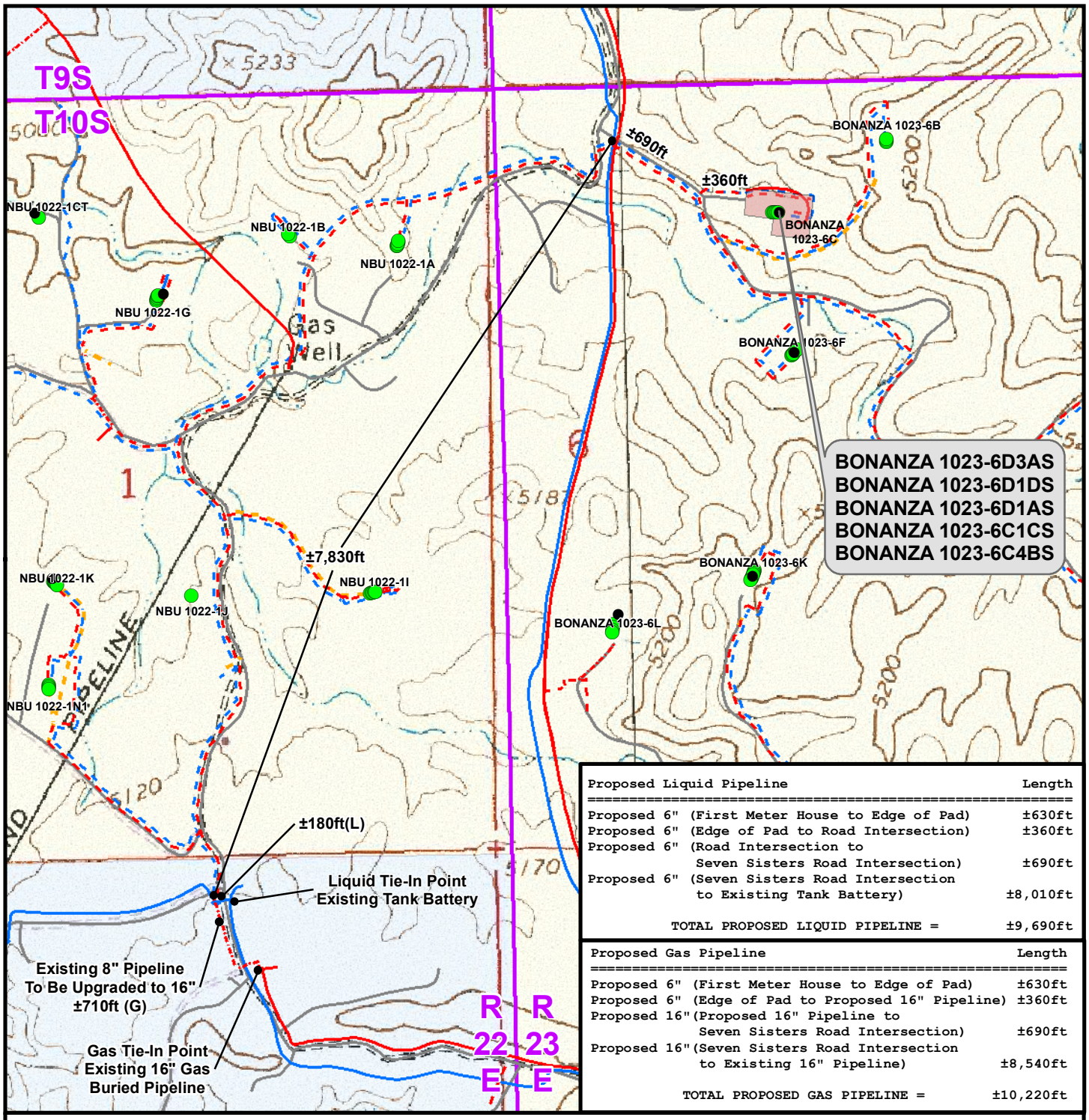
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14 of 17
Drawn: TL	Date: 13 Apr 2010	
Revised: CPS	Date: 15 Oct 2010	

'APIWellNo:43047514500000'



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±630ft
Proposed 6" (Edge of Pad to Road Intersection)	±360ft
Proposed 6" (Road Intersection to Seven Sisters Road Intersection)	±690ft
Proposed 6" (Seven Sisters Road Intersection to Existing Tank Battery)	±8,010ft
TOTAL PROPOSED LIQUID PIPELINE =	±9,690ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±630ft
Proposed 6" (Edge of Pad to Proposed 16" Pipeline)	±360ft
Proposed 16" (Proposed 16" Pipeline to Seven Sisters Road Intersection)	±690ft
Proposed 16" (Seven Sisters Road Intersection to Existing 16" Pipeline)	±8,540ft
TOTAL PROPOSED GAS PIPELINE =	±10,220ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

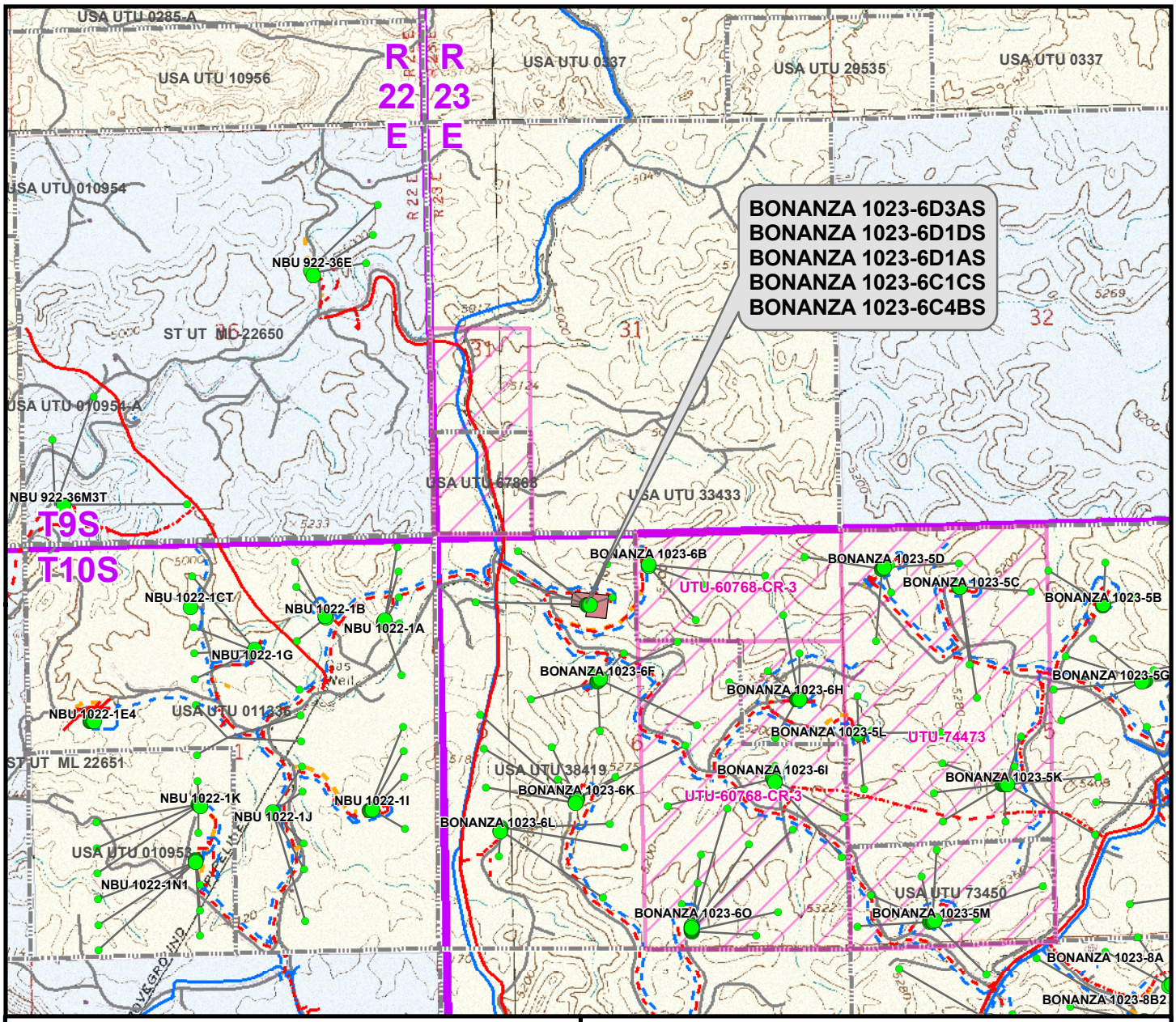
TOPO D2 (PAD & PIPELINE DETAIL)
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 1,000ft	NAD83 USP Central	Sheet No:
Drawn: TL Date: 13 Apr 2010		15
Revised: CPS Date: 15 Oct 2010		15 of 17

'APIWellNo:43047514500000'



Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6D3AS	835ft
BONANZA 1023-6D1DS	565ft
BONANZA 1023-6D1AS	195ft
BONANZA 1023-6C1CS	404ft
BONANZA 1023-6C4BS	352ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6D3AS	490ft
BONANZA 1023-6D1DS	565ft
BONANZA 1023-6D1AS	195ft
BONANZA 1023-6C1CS	390ft
BONANZA 1023-6C4BS	352ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- CA Agreement
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6C

TOPO E
BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 16	16 of 17
Drawn: TL	Date: 13 Apr 2010		
Revised: CPS	Date: 15 Oct 2010		

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-6C
WELLS – BONANZA 1023-6D3AS,
BONANZA 1023-6D1DS, BONANZA 1023-6D1AS,
BONANZA 1023-6C1CS & BONANZA 1023-6C4BS
Section 6, T10S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 4.0 miles to a service road to the left. Exit left and proceed in a southeasterly direction along the service road approximately 0.2 miles to a second service road to the left. Exit left and proceed in a northeasterly direction along the service road approximately 0.1 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 46.5 miles in a southerly direction.

'APIWellNo:43047514500000'

Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: Bonanza 1023-6C Pad
Well: BONANZA 1023-6D1AS
Wellbore: OH
Design: PLAN #1

Anadarko Petroleum Corporation

WELL DETAILS: BONANZA 1023-6D1AS

GL 5149 & RKB 14'
@ 5163.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14523946.19	2096691.99	39° 58' 58.051 N	109° 22' 16.435 W

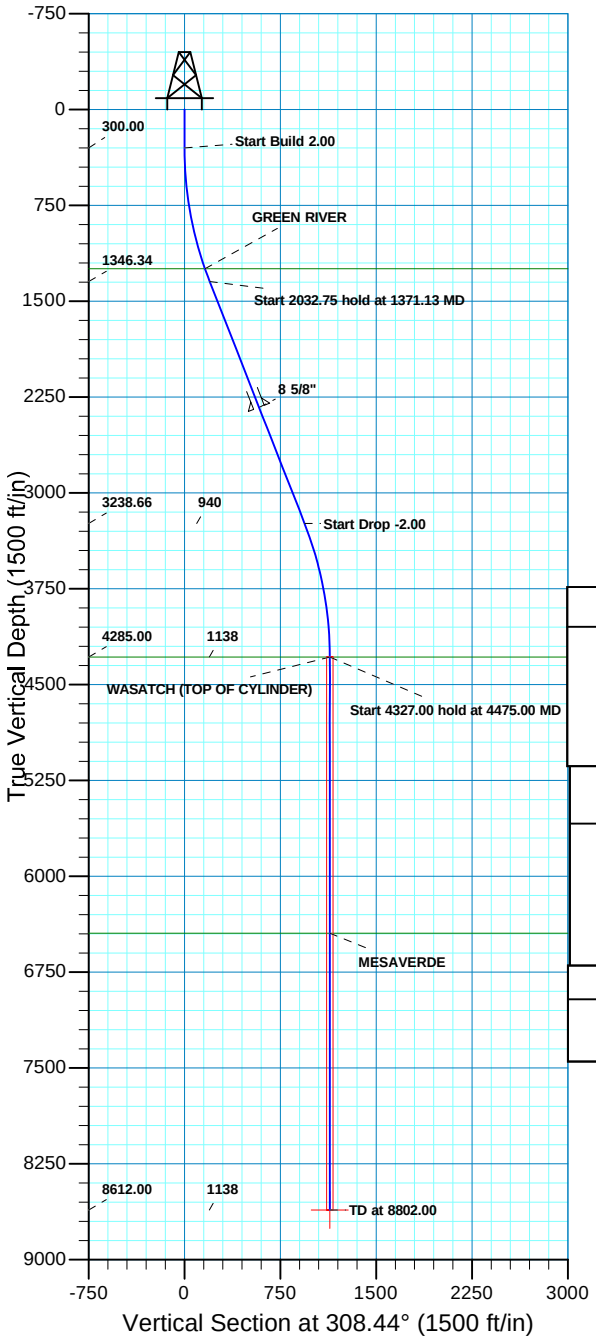
DESIGN TARGET DETAILS

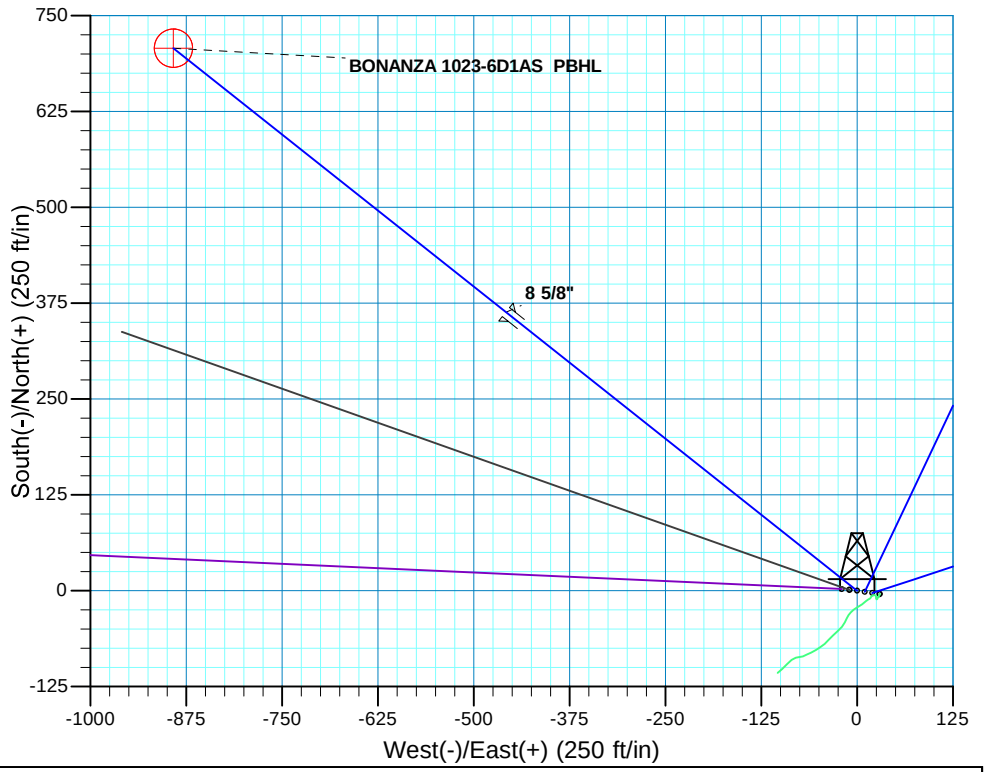
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8612.00	707.70	-891.56	14524637.48	2095787.66	39° 59' 5.046 N	109° 22' 27.890 W	Circle (Radius: 25.00)

- plan hits target center

T
MAzimuths to True North
Magnetic North: 11.11°

Magnetic Field
Strength: 52409.2snT
Dip Angle: 65.90°
Date: 09/20/2010
Model: IGRF2010





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1371.13	21.42	308.44	1346.34	123.05	-155.02	2.00	308.44	197.92	
3403.88	21.42	308.44	3238.66	584.64	-736.54	0.00	0.00	940.37	
4475.00	0.00	0.00	4285.00	707.70	-891.56	2.00	180.00	1138.29	
8802.00	0.00	0.00	8612.00	707.70	-891.56	0.00	0.00	1138.29	BONANZA 1023-6D1AS PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 6 T10S R23E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1246.00	1264.10	GREEN RIVER
4285.00	4475.00	WASATCH (TOP OF CYLINDER)
6446.00	6636.00	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2332.00	2429.93	8 5/8"	8.625

Plan: PLAN #1 (BONANZA 1023-6D1AS/OH)

Created By: RobertScott Date: 9:47, September 20 2010

'APIWellNo:43047514500000'

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bonanza 1023-6C Pad
BONANZA 1023-6D1AS

OH

Plan: PLAN #1

Standard Planning Report

20 September, 2010

Anadarko
Petroleum Corporation

'APIWellNo:43047514500000'

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site Bonanza 1023-6C Pad, SEC 6 T10S R23E

Site Position:		**Northing:**	14,523,943.65 usft	**Latitude:**	39° 58' 58.022 N
From:	Lat/Long	**Easting:**	2,096,711.93 usft	**Longitude:**	109° 22' 16.180 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.05 °

Well BONANZA 1023-6D1AS, 904' FNL 1942' FWL

Well Position	**+N/-S**	2.91 ft	**Northing:**	14,523,946.20 usft	**Latitude:**	39° 58' 58.051 N
	+E/-W	-19.89 ft	**Easting:**	2,096,691.99 usft	**Longitude:**	109° 22' 16.435 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,149.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/20/2010	11.11	65.90	52,409

Design PLAN #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	308.44

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,371.13	21.42	308.44	1,346.34	123.05	-155.02	2.00	2.00	0.00	308.44	
3,403.88	21.42	308.44	3,238.66	584.64	-736.54	0.00	0.00	0.00	0.00	
4,475.00	0.00	0.00	4,285.00	707.70	-891.56	2.00	-2.00	0.00	180.00	
8,802.00	0.00	0.00	8,612.00	707.70	-891.56	0.00	0.00	0.00	0.00	BONANZA 1023-6D1,

'APIWellNo:43047514500000'

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	308.44	399.98	1.08	-1.37	1.75	2.00	2.00	0.00
500.00	4.00	308.44	499.84	4.34	-5.47	6.98	2.00	2.00	0.00
600.00	6.00	308.44	599.45	9.76	-12.29	15.69	2.00	2.00	0.00
700.00	8.00	308.44	698.70	17.33	-21.84	27.88	2.00	2.00	0.00
800.00	10.00	308.44	797.47	27.06	-34.09	43.52	2.00	2.00	0.00
900.00	12.00	308.44	895.62	38.92	-49.03	62.60	2.00	2.00	0.00
1,000.00	14.00	308.44	993.06	52.91	-66.65	85.10	2.00	2.00	0.00
1,100.00	16.00	308.44	1,089.64	69.00	-86.92	110.98	2.00	2.00	0.00
1,200.00	18.00	308.44	1,185.27	87.17	-109.82	140.21	2.00	2.00	0.00
1,264.10	19.28	308.44	1,246.00	99.91	-125.87	160.70	2.00	2.00	0.00
GREEN RIVER									
1,300.00	20.00	308.44	1,279.82	107.41	-135.32	172.77	2.00	2.00	0.00
1,371.13	21.42	308.44	1,346.34	123.05	-155.02	197.92	2.00	2.00	0.00
Start 2032.75 hold at 1371.13 MD									
1,400.00	21.42	308.44	1,373.22	129.61	-163.28	208.47	0.00	0.00	0.00
1,500.00	21.42	308.44	1,466.31	152.32	-191.89	244.99	0.00	0.00	0.00
1,600.00	21.42	308.44	1,559.40	175.02	-220.50	281.52	0.00	0.00	0.00
1,700.00	21.42	308.44	1,652.50	197.73	-249.10	318.04	0.00	0.00	0.00
1,800.00	21.42	308.44	1,745.59	220.44	-277.71	354.56	0.00	0.00	0.00
1,900.00	21.42	308.44	1,838.68	243.15	-306.32	391.09	0.00	0.00	0.00
2,000.00	21.42	308.44	1,931.77	265.85	-334.92	427.61	0.00	0.00	0.00
2,100.00	21.42	308.44	2,024.86	288.56	-363.53	464.14	0.00	0.00	0.00
2,200.00	21.42	308.44	2,117.95	311.27	-392.14	500.66	0.00	0.00	0.00
2,300.00	21.42	308.44	2,211.04	333.98	-420.75	537.19	0.00	0.00	0.00
2,400.00	21.42	308.44	2,304.13	356.69	-449.35	573.71	0.00	0.00	0.00
2,429.93	21.42	308.44	2,332.00	363.48	-457.92	584.64	0.00	0.00	0.00
8 5/8"									
2,500.00	21.42	308.44	2,397.23	379.39	-477.96	610.24	0.00	0.00	0.00
2,600.00	21.42	308.44	2,490.32	402.10	-506.57	646.76	0.00	0.00	0.00
2,700.00	21.42	308.44	2,583.41	424.81	-535.18	683.28	0.00	0.00	0.00
2,800.00	21.42	308.44	2,676.50	447.52	-563.78	719.81	0.00	0.00	0.00
2,900.00	21.42	308.44	2,769.59	470.23	-592.39	756.33	0.00	0.00	0.00
3,000.00	21.42	308.44	2,862.68	492.93	-621.00	792.86	0.00	0.00	0.00
3,100.00	21.42	308.44	2,955.77	515.64	-649.61	829.38	0.00	0.00	0.00
3,200.00	21.42	308.44	3,048.86	538.35	-678.21	865.91	0.00	0.00	0.00
3,300.00	21.42	308.44	3,141.96	561.06	-706.82	902.43	0.00	0.00	0.00
3,400.00	21.42	308.44	3,235.05	583.76	-735.43	938.95	0.00	0.00	0.00
3,403.88	21.42	308.44	3,238.66	584.64	-736.54	940.37	0.00	0.00	0.00
Start Drop -2.00									
3,500.00	19.50	308.44	3,328.71	605.53	-762.85	973.97	2.00	-2.00	0.00
3,600.00	17.50	308.44	3,423.54	625.26	-787.71	1,005.70	2.00	-2.00	0.00
3,700.00	15.50	308.44	3,519.41	642.92	-809.95	1,034.10	2.00	-2.00	0.00
3,800.00	13.50	308.44	3,616.22	658.48	-829.56	1,059.14	2.00	-2.00	0.00
3,900.00	11.50	308.44	3,713.85	671.94	-846.51	1,080.78	2.00	-2.00	0.00
4,000.00	9.50	308.44	3,812.17	683.27	-860.78	1,099.00	2.00	-2.00	0.00
4,100.00	7.50	308.44	3,911.07	692.46	-872.36	1,113.78	2.00	-2.00	0.00

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	5.50	308.44	4,010.42	699.50	-881.23	1,125.10	2.00	-2.00	0.00
4,300.00	3.50	308.44	4,110.11	704.37	-887.37	1,132.95	2.00	-2.00	0.00
4,400.00	1.50	308.44	4,210.00	707.09	-890.79	1,137.31	2.00	-2.00	0.00
4,475.00	0.00	0.00	4,285.00	707.70	-891.56	1,138.29	2.00	-2.00	68.74
Start 4327.00 hold at 4475.00 MD - WASATCH (TOP OF CYLINDER)									
4,500.00	0.00	0.00	4,310.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
4,600.00	0.00	0.00	4,410.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
4,700.00	0.00	0.00	4,510.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
4,800.00	0.00	0.00	4,610.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
4,900.00	0.00	0.00	4,710.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,000.00	0.00	0.00	4,810.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,100.00	0.00	0.00	4,910.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,200.00	0.00	0.00	5,010.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,300.00	0.00	0.00	5,110.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,400.00	0.00	0.00	5,210.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,500.00	0.00	0.00	5,310.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,600.00	0.00	0.00	5,410.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,700.00	0.00	0.00	5,510.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,800.00	0.00	0.00	5,610.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
5,900.00	0.00	0.00	5,710.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,000.00	0.00	0.00	5,810.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,100.00	0.00	0.00	5,910.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,200.00	0.00	0.00	6,010.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,300.00	0.00	0.00	6,110.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,400.00	0.00	0.00	6,210.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,500.00	0.00	0.00	6,310.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,600.00	0.00	0.00	6,410.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,636.00	0.00	0.00	6,446.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
MESAVERDE									
6,700.00	0.00	0.00	6,510.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,800.00	0.00	0.00	6,610.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
6,900.00	0.00	0.00	6,710.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,000.00	0.00	0.00	6,810.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,100.00	0.00	0.00	6,910.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,200.00	0.00	0.00	7,010.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,300.00	0.00	0.00	7,110.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,400.00	0.00	0.00	7,210.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,500.00	0.00	0.00	7,310.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,600.00	0.00	0.00	7,410.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,700.00	0.00	0.00	7,510.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,800.00	0.00	0.00	7,610.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
7,900.00	0.00	0.00	7,710.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,000.00	0.00	0.00	7,810.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,100.00	0.00	0.00	7,910.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,200.00	0.00	0.00	8,010.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,300.00	0.00	0.00	8,110.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,400.00	0.00	0.00	8,210.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,500.00	0.00	0.00	8,310.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,600.00	0.00	0.00	8,410.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,700.00	0.00	0.00	8,510.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,800.00	0.00	0.00	8,610.00	707.70	-891.56	1,138.29	0.00	0.00	0.00
8,802.00	0.00	0.00	8,612.00	707.70	-891.56	1,138.29	0.00	0.00	0.00

'APIWellNo:43047514500000'

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
BONANZA 1023-6D1AS PBHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6D1AS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,612.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,429.93	2,332.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,264.10	1,246.00	GREEN RIVER			
4,475.00	4,285.00	WASATCH (TOP OF CYLINDER)			
6,636.00	6,446.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,371.13	1,346.34	123.05	-155.02	Start 2032.75 hold at 1371.13 MD
3,403.88	3,238.66	584.64	-736.54	Start Drop -2.00
4,475.00	4,285.00	707.70	-891.56	Start 4327.00 hold at 4475.00 MD
8,802.00	8,612.00	707.70	-891.56	TD at 8802.00

'APIWellNo:43047514500000'

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bonanza 1023-6C Pad
BONANZA 1023-6D1AS

OH

Plan: PLAN #1

Standard Planning Report - Geographic

20 September, 2010

Anadarko
Petroleum Corporation

'APIWellNo:43047514500000'

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site Bonanza 1023-6C Pad, SEC 6 T10S R23E

Site Position:		**Northing:**	14,523,943.65 usft	**Latitude:**	39° 58' 58.022 N
From:	Lat/Long	**Easting:**	2,096,711.93 usft	**Longitude:**	109° 22' 16.180 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.05 °

Well BONANZA 1023-6D1AS, 904' FNL 1942' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,523,946.20 usft	**Latitude:**	39° 58' 58.051 N
	+E/-W	0.00 ft	**Easting:**	2,096,691.99 usft	**Longitude:**	109° 22' 16.435 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,149.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/20/2010	11.11	65.90	52,409

Design PLAN #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	308.44

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,371.13	21.42	308.44	1,346.34	123.05	-155.02	2.00	2.00	0.00	308.44	
3,403.88	21.42	308.44	3,238.66	584.64	-736.54	0.00	0.00	0.00	0.00	
4,475.00	0.00	0.00	4,285.00	707.70	-891.56	2.00	-2.00	0.00	180.00	
8,802.00	0.00	0.00	8,612.00	707.70	-891.56	0.00	0.00	0.00	0.00	BONANZA 1023-6D1,

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,523,946.20	2,096,691.99	39° 58' 58.051 N	109° 22' 16.435 W
100.00	0.00	0.00	100.00	0.00	0.00	14,523,946.20	2,096,691.99	39° 58' 58.051 N	109° 22' 16.435 W
200.00	0.00	0.00	200.00	0.00	0.00	14,523,946.20	2,096,691.99	39° 58' 58.051 N	109° 22' 16.435 W
300.00	0.00	0.00	300.00	0.00	0.00	14,523,946.20	2,096,691.99	39° 58' 58.051 N	109° 22' 16.435 W
Start Build 2.00									
400.00	2.00	308.44	399.98	1.08	-1.37	14,523,947.26	2,096,690.60	39° 58' 58.062 N	109° 22' 16.453 W
500.00	4.00	308.44	499.84	4.34	-5.47	14,523,950.44	2,096,686.44	39° 58' 58.094 N	109° 22' 16.505 W
600.00	6.00	308.44	599.45	9.76	-12.29	14,523,955.73	2,096,679.52	39° 58' 58.148 N	109° 22' 16.593 W
700.00	8.00	308.44	698.70	17.33	-21.84	14,523,963.13	2,096,669.84	39° 58' 58.223 N	109° 22' 16.716 W
800.00	10.00	308.44	797.47	27.06	-34.09	14,523,972.63	2,096,657.41	39° 58' 58.319 N	109° 22' 16.873 W
900.00	12.00	308.44	895.62	38.92	-49.03	14,523,984.22	2,096,642.25	39° 58' 58.436 N	109° 22' 17.065 W
1,000.00	14.00	308.44	993.06	52.91	-66.65	14,523,997.88	2,096,624.38	39° 58' 58.574 N	109° 22' 17.292 W
1,100.00	16.00	308.44	1,089.64	69.00	-86.92	14,524,013.59	2,096,603.82	39° 58' 58.733 N	109° 22' 17.552 W
1,200.00	18.00	308.44	1,185.27	87.17	-109.82	14,524,031.35	2,096,580.59	39° 58' 58.913 N	109° 22' 17.846 W
1,264.10	19.28	308.44	1,246.00	99.91	-125.87	14,524,043.79	2,096,564.32	39° 58' 59.039 N	109° 22' 18.052 W
GREEN RIVER									
1,300.00	20.00	308.44	1,279.82	107.41	-135.32	14,524,051.12	2,096,554.73	39° 58' 59.113 N	109° 22' 18.174 W
1,371.13	21.42	308.44	1,346.34	123.05	-155.02	14,524,066.40	2,096,534.75	39° 58' 59.267 N	109° 22' 18.427 W
Start 2032.75 hold at 1371.13 MD									
1,400.00	21.42	308.44	1,373.22	129.61	-163.28	14,524,072.80	2,096,526.37	39° 58' 59.332 N	109° 22' 18.533 W
1,500.00	21.42	308.44	1,466.31	152.32	-191.89	14,524,094.98	2,096,497.35	39° 58' 59.557 N	109° 22' 18.901 W
1,600.00	21.42	308.44	1,559.40	175.02	-220.50	14,524,117.16	2,096,468.33	39° 58' 59.781 N	109° 22' 19.268 W
1,700.00	21.42	308.44	1,652.50	197.73	-249.10	14,524,139.35	2,096,439.32	39° 59' 0.006 N	109° 22' 19.636 W
1,800.00	21.42	308.44	1,745.59	220.44	-277.71	14,524,161.53	2,096,410.30	39° 59' 0.230 N	109° 22' 20.003 W
1,900.00	21.42	308.44	1,838.68	243.15	-306.32	14,524,183.71	2,096,381.28	39° 59' 0.454 N	109° 22' 20.371 W
2,000.00	21.42	308.44	1,931.77	265.85	-334.92	14,524,205.89	2,096,352.26	39° 59' 0.679 N	109° 22' 20.738 W
2,100.00	21.42	308.44	2,024.86	288.56	-363.53	14,524,228.07	2,096,323.25	39° 59' 0.903 N	109° 22' 21.106 W
2,200.00	21.42	308.44	2,117.95	311.27	-392.14	14,524,250.25	2,096,294.23	39° 59' 1.128 N	109° 22' 21.474 W
2,300.00	21.42	308.44	2,211.04	333.98	-420.75	14,524,272.43	2,096,265.21	39° 59' 1.352 N	109° 22' 21.841 W
2,400.00	21.42	308.44	2,304.13	356.69	-449.35	14,524,294.61	2,096,236.19	39° 59' 1.577 N	109° 22' 22.209 W
2,429.93	21.42	308.44	2,332.00	363.48	-457.92	14,524,301.25	2,096,227.51	39° 59' 1.644 N	109° 22' 22.319 W
8 5/8"									
2,500.00	21.42	308.44	2,397.23	379.39	-477.96	14,524,316.80	2,096,207.18	39° 59' 1.801 N	109° 22' 22.576 W
2,600.00	21.42	308.44	2,490.32	402.10	-506.57	14,524,338.98	2,096,178.16	39° 59' 2.026 N	109° 22' 22.944 W
2,700.00	21.42	308.44	2,583.41	424.81	-535.18	14,524,361.16	2,096,149.14	39° 59' 2.250 N	109° 22' 23.311 W
2,800.00	21.42	308.44	2,676.50	447.52	-563.78	14,524,383.34	2,096,120.13	39° 59' 2.474 N	109° 22' 23.679 W
2,900.00	21.42	308.44	2,769.59	470.23	-592.39	14,524,405.52	2,096,091.11	39° 59' 2.699 N	109° 22' 24.046 W
3,000.00	21.42	308.44	2,862.68	492.93	-621.00	14,524,427.70	2,096,062.09	39° 59' 2.923 N	109° 22' 24.414 W
3,100.00	21.42	308.44	2,955.77	515.64	-649.61	14,524,449.88	2,096,033.07	39° 59' 3.148 N	109° 22' 24.782 W
3,200.00	21.42	308.44	3,048.86	538.35	-678.21	14,524,472.07	2,096,004.06	39° 59' 3.372 N	109° 22' 25.149 W
3,300.00	21.42	308.44	3,141.96	561.06	-706.82	14,524,494.25	2,095,975.04	39° 59' 3.597 N	109° 22' 25.517 W
3,400.00	21.42	308.44	3,235.05	583.76	-735.43	14,524,516.43	2,095,946.02	39° 59' 3.821 N	109° 22' 25.884 W
3,403.88	21.42	308.44	3,238.66	584.64	-736.54	14,524,517.29	2,095,944.90	39° 59' 3.830 N	109° 22' 25.899 W
Start Drop -2.00									
3,500.00	19.50	308.44	3,328.71	605.53	-762.85	14,524,537.69	2,095,918.20	39° 59' 4.036 N	109° 22' 26.237 W
3,600.00	17.50	308.44	3,423.54	625.26	-787.71	14,524,556.96	2,095,892.99	39° 59' 4.231 N	109° 22' 26.556 W
3,700.00	15.50	308.44	3,519.41	642.92	-809.95	14,524,574.21	2,095,870.43	39° 59' 4.406 N	109° 22' 26.842 W
3,800.00	13.50	308.44	3,616.22	658.48	-829.56	14,524,589.42	2,095,850.54	39° 59' 4.560 N	109° 22' 27.094 W
3,900.00	11.50	308.44	3,713.85	671.94	-846.51	14,524,602.56	2,095,833.35	39° 59' 4.693 N	109° 22' 27.312 W
4,000.00	9.50	308.44	3,812.17	683.27	-860.78	14,524,613.63	2,095,818.87	39° 59' 4.805 N	109° 22' 27.495 W
4,100.00	7.50	308.44	3,911.07	692.46	-872.36	14,524,622.60	2,095,807.13	39° 59' 4.895 N	109° 22' 27.644 W
4,200.00	5.50	308.44	4,010.42	699.50	-881.23	14,524,629.48	2,095,798.13	39° 59' 4.965 N	109° 22' 27.758 W

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,300.00	3.50	308.44	4,110.11	704.37	-887.37	14,524,634.24	2,095,791.90	39° 59' 5.013 N	109° 22' 27.837 W
4,400.00	1.50	308.44	4,210.00	707.09	-890.79	14,524,636.89	2,095,788.43	39° 59' 5.040 N	109° 22' 27.881 W
4,475.00	0.00	0.00	4,285.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
Start 4327.00 hold at 4475.00 MD - WASATCH (TOP OF CYLINDER)									
4,500.00	0.00	0.00	4,310.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
4,600.00	0.00	0.00	4,410.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
4,700.00	0.00	0.00	4,510.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
4,800.00	0.00	0.00	4,610.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
4,900.00	0.00	0.00	4,710.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,000.00	0.00	0.00	4,810.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,100.00	0.00	0.00	4,910.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,200.00	0.00	0.00	5,010.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,300.00	0.00	0.00	5,110.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,400.00	0.00	0.00	5,210.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,500.00	0.00	0.00	5,310.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,600.00	0.00	0.00	5,410.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,700.00	0.00	0.00	5,510.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,800.00	0.00	0.00	5,610.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
5,900.00	0.00	0.00	5,710.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,000.00	0.00	0.00	5,810.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,100.00	0.00	0.00	5,910.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,200.00	0.00	0.00	6,010.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,300.00	0.00	0.00	6,110.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,400.00	0.00	0.00	6,210.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,500.00	0.00	0.00	6,310.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,600.00	0.00	0.00	6,410.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,636.00	0.00	0.00	6,446.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
MESAVERDE									
6,700.00	0.00	0.00	6,510.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,800.00	0.00	0.00	6,610.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
6,900.00	0.00	0.00	6,710.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,000.00	0.00	0.00	6,810.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,100.00	0.00	0.00	6,910.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,200.00	0.00	0.00	7,010.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,300.00	0.00	0.00	7,110.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,400.00	0.00	0.00	7,210.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,500.00	0.00	0.00	7,310.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,600.00	0.00	0.00	7,410.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,700.00	0.00	0.00	7,510.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,800.00	0.00	0.00	7,610.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
7,900.00	0.00	0.00	7,710.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,000.00	0.00	0.00	7,810.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,100.00	0.00	0.00	7,910.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,200.00	0.00	0.00	8,010.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,300.00	0.00	0.00	8,110.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,400.00	0.00	0.00	8,210.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,500.00	0.00	0.00	8,310.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,600.00	0.00	0.00	8,410.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,700.00	0.00	0.00	8,510.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,800.00	0.00	0.00	8,610.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
8,802.00	0.00	0.00	8,612.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W
BONANZA 1023-6D1AS PBHL									

'APIWellNo:43047514500000'

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well BONANZA 1023-6D1AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5149 & RKB 14' @ 5163.00ft (ASSUMED)
Site:	Bonanza 1023-6C Pad	**North Reference:**	True
Well:	BONANZA 1023-6D1AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6D1AS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,612.00	707.70	-891.56	14,524,637.49	2,095,787.65	39° 59' 5.046 N	109° 22' 27.890 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,429.93	2,332.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,264.10	1,246.00	GREEN RIVER			
4,475.00	4,285.00	WASATCH (TOP OF CYLINDER)			
6,636.00	6,446.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,371.13	1,346.34	123.05	-155.02	Start 2032.75 hold at 1371.13 MD
3,403.88	3,238.66	584.64	-736.54	Start Drop -2.00
4,475.00	4,285.00	707.70	-891.56	Start 4327.00 hold at 4475.00 MD
8,802.00	8,612.00	707.70	-891.56	TD at 8802.00

'APIWellNo:43047514500000'

Kerr-McGee Oil & Gas Onshore. L.P.

Bonanza 1023-6C Pad

API #	BONANZA 1023-6C1CS			
	Surface:	906 FNL / 1952 FWL	NENW	Lot 3
	BHL:	390 FNL / 2200 FWL	NENW	Lot 3

API #	BONANZA 1023-6C4BS			
	Surface:	907 FNL / 1962 FWL	NENW	Lot 3
	BHL:	813 FNL / 2250 FWL	NENW	Lot 3

API #	BONANZA 1023-6D1AS			
	Surface:	904 FNL / 1942 FWL	NENW	Lot 3
	BHL:	195 FNL / 1054 FWL	NWNW	Lot 4

API #	BONANZA 1023-6D1DS			
	Surface:	903 FNL / 1932 FWL	NENW	Lot 3
	BHL:	565 FNL / 985 FWL	NWNW	Lot 4

API #	BONANZA 1023-6D3AS			
	Surface:	902 FNL / 1922 FWL	NENW	Lot 3
	BHL:	835 FNL / 490 FWL	NWNW	Lot 4

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information incorporates by reference the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (KMG). The MDP is available upon request from the BLM-Vernal Field Office.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on June 16, 2010. Present were:

- Dave Gordon, Suzanne Gray and Dan Emmett – BLM;
- John Slaugh, Brock Slaugh and Mitch Batty- Timberline Engineering & Land Surveying, Inc.; and
- Roger Parry, Clay Einerson, Grizz Oleen, Sheila Wopsock, Lovell Young, Grizz Oleen, Hal Blanchard, Lance Morton, Tim Donovan, Kathie Zehren, Laura Gianakos and Charles Chase – Kerr-McGee

A. Existing Roads:

A) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The following segments are "onlease", no ROW needed.

±6,840' (1.3 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU38419, from the edge of pad to the eastern section line boundary in NE/4 SE/4. Please see Topo D and Exhibit B2, Lines 7 and 5.

The following segments require a ROW.

±1,310' (0.3 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, from the western section line boundary the southern section line boundary. Please refer to Exhibit B2, Line 4.

±40' (0.01 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, dips into the northern section line boundary and back up to northern section line boundary. Please refer to Exhibit B2, Line 3.

±600' (0.1 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, comes in from the southern section boundary line, travels east, then back to the southern section boundary line. Please refer to Exhibit B2, Line 2.

±1,010' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, enters the northern section line boundary and ties in to exsisting road in the NE/4 NW/4 of section 8. Please refer to Exhibit B2, Line 1.

B. New or Reconstructed Access Roads:

See MDP for additional details on road construction.

No new roads need to be constructed for this pad.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

See MDP for additional details on Location of Existing and/or Proposed Facilities. Also, please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

This pad will expand the existing pad for the Bonanza 1023-6C, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 15, 2010. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG).

GAS GATHERING

The gas gathering pipeline material: Steel line pipe with fusion bond epoxy coating. The total gas gathering pipeline distance from the meter to the tie in point is ±9,220’ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±630’ (0.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.

±360’ (0.07 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried gas gathering pipeline from the edge of the pad to the proposed 16" pipeline. Please refer Topo D Pad and Pipeline Detail.

±1,770’ (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 16” buried gas gathering pipeline from the Bonanza 1023-6C Pad 6" tie-in to the western edge of the section line boundary. Please refer to Exhibit A1, Lines 12 and 13. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H,

Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

±6,460’ (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 16” buried gas gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit A1, Line 14. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The remaining gas pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a gas gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed gas gathering from the meter to the tie in point is ±9,920 and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±630’ (0.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.

±360’ (0.07 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried gas gathering pipeline from the edge of the pad to the proposed 16" pipeline. Please refer Topo D Pad and Pipeline Detail.

±6,030’ (1.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU38419, BLM surface, New 16” buried gas gathering pipeline from the Bonanza 1023-6C Pad 6" tie-in to the eastern edge of the lease and section line boundary. Please refer to Exhibit A1, Lines 11, 9, 8 and 6. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

±1,220’ (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16” gas gathering pipeline from the west lease boundary of 1023-Section 5 to the southern lease boundary of 1023-Section 5. Please refer to Exhibit A1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±190’ (0.03 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 16” gas gathering pipeline dips in from the north lease boundary of 1023-Section 8 and back north to the section boundary. Please refer to Exhibit A1, Line 4.This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±360’ (0.03 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16” gas gathering pipeline dips in from the south lease boundary of 1023-Section 5 and back south to the section boundary. Please refer to Exhibit A1, Line 3 and 2. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±1,130’ (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New

16” gas gathering pipeline comes in from the north lease boundary of 1023-Section 8 and goes southeasterly to the tie in point in the NENW of 1023 section 8. Please refer to Exhibit A1, Line 1. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

Kerr-McGee will transport fluids (Gas and Liquids) via either or both of the said pipelines.

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±9,220’ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±630’ (0.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.

±360’ (0.07 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the edge of the pad to the tie-in point at proposed 6" liquid pipeline. Please refer Topo D Pad and Pipeline Detail.

±1,770’ (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the Bonanza 1023-6C Pad 6" tie-in to the western edge of the section line boundary. Please refer to Exhibit B1, Lines 3 and 4. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

±6,460’ (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 6” buried liquid gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit B1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The remaining liquid pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a liquid gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed liquid gathering from the separator to the tie in point is ±9,920 and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±630’ (0.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.

±360’ (0.07 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the edge of the pad to the tie-in point at proposed 6" liquid pipeline. Please refer Topo D Pad and Pipeline Detail.

±6,030’ (1.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU38419, BLM surface, New 6” buried liquid gathering pipeline from the Bonanza 1023-6C Pad 6" tie-in to the eastern edge of the lease and section line boundary. Please refer to Exhibit B1, Lines 2, 18, 19 and 7. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

±1,220’ (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 6” liquid gathering pipeline from the west lease boundary of 1023-Section 5 to the southern lease boundary of 1023-Section 5. Please refer to Exhibit B1, Line 8. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±190’ (0.03 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 6” liquid gathering pipeline dips in from the north lease boundary of 1023-Section 8 and back north to the section boundary. Please refer to Exhibit B1, Line 9. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±360’ (0.03 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 6” liquid gathering pipeline dips in from the south lease boundary of 1023-Section 5 and back south to the section boundary. Please refer to Exhibit B1, Line 10 and 16. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±1,130’ (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 6” gas gathering pipeline comes in from the north lease boundary of 1023-Section 8 and goes southeasterly to the tie in point in the NENW of 1023 section 8. Please refer to Exhibit B1, Line 17. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed buried pipelines will be constructed utilizing existing disturbance when possible. The area of disturbance during construction from the edge of road or well pad will be 30' in width. The total pipeline disturbance width will be 30’. Where possible there will be no additional disturbance during construction, as the road will be utilized for construction vehicles. The liquid and gas gathering lines will be in the same trench.

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards

proposed in the Green River District Reclamation Guidelines. Please refer to the MDP for more details regarding final reclamation. Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations to connect the new line to existing facilities and/or for safety purposes. Kerr-McGee requests for a permanent 30' right-of-way that will be maintained for the portion adjacent to the road. The need for the 30' permanent right-of-way is for maintenance and repairs.

When no longer serving a useful purpose, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before termination.

The Anadarko Completions Transportation System (ACTS) information:
See MDP for additional details on the ACTS System.

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The refurbished pit will be relined per the guidelines in the MDP. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit that does not coincide with Kerr-McGee’s MDP. Hog fence panels (5’ X 16’) will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits. There will be two 500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The

purpose of the temporary frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6” aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig.

Kerr-McGee requests to keep this netted pit open for one year. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim as stated in the MDP. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be

issued by the BLM.

E. Location and Types of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods for Handling Waste:

See MDP for additional details on Methods of Handling Waste Materials

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.
None are anticipated.

I. Well Site Layout:

See MDP and Well Pad Design Summary for additional details on Well Site Layout.

J. Plans for Surface Reclamation:

See MDP for additional details on Plans for Reclamation of the Surface.

Site Specific Reclamation Considerations:

Reclamation Monitoring Reference Point for all wells on Pad (where a reclamation monitoring point has not been established at the time of APD submission, it will be submitted for approval under separate cover prior to surface disturbing activities):

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	**Pure Live Seed lbs/acre**
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass (Arriba)	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
Total	9.75

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

See MDP for additional details on Other Information.

Onsite Specifics:

- Construction: 30 Mil Double Felt
- Construction: KMG to build a retention pond for wildlife mitigation
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" and put in the corner or 10 & 9.
- Wildlife Stips: Golden Eagle- No construction or drilling, Feb 1st - August 15th

Resource Reports:

A Class I literature survey was completed on August 20, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-066b.

A paleontological reconnaissance survey was completed on June 1, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-25.

Biological field survey was completed on June 8, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-307.

Right-of-Ways (ROW):
See MDP for additional information on ROW

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T. Becker

Gina T.Becker

December 28, 2010
Date

'APIWellNo:43047514500000'

Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779

June 30, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11
Bonanza 1023-6D1AS
T10S- R23E
Section 6: NENW/NWNW
904' FNL, 1942' FWL (surface)
195' FNL, 1054' FWL (bottom hole)
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's Bonanza 1023-6D1AS is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.

- Kerr-McGee is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to minimize surface disturbance.

- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R6493-3 and Rule R649-3-11.

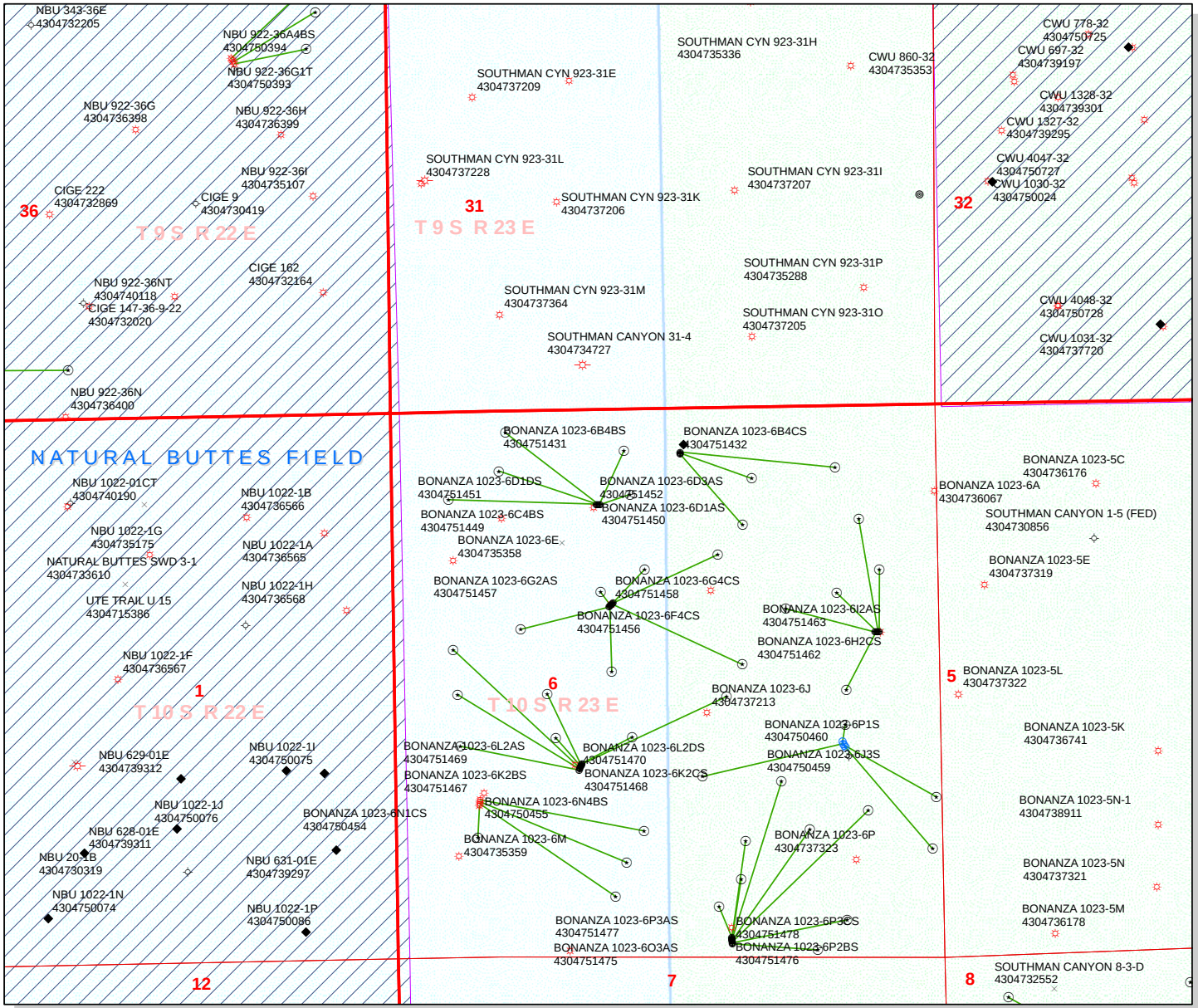
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jessy Pink

Jessy Pink
Landman

'APIWellNo:43047514500000'



API Number: 4304751450

Well Name: BONANZA 1023-6D1AS

Township 10.0 S Range 23.0 E Section 06

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED
- Sections
- Township

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,250 625 0 1,250 Feet

1:12,000

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/3/2011 **API NO. ASSIGNED:** 43047514500000

WELL NAME: BONANZA 1023-6D1AS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NENW 06 100S 230E **Permit Tech Review:** ✔

SURFACE: 0904 FNL 1942 FWL **Engineering Review:** ✔

BOTTOM: 0195 FNL 1054 FWL **Geology Review:** ✔

COUNTY: UINTAH

LATITUDE: 39.98284 **LONGITUDE:** -109.37137

UTM SURF EASTINGS: 639061.00 **NORTHINGS:** 4426913.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU38419 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ✔ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ✔ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 179-14

Effective Date: 6/12/2008

Siting: 460' Fr Exterior Drilling Unit Boundary

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

1 - Exception Location - dmason
3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: BONANZA 1023-6D1AS
API Well Number: 43047514500000
Lease Number: UTU38419
Surface Owner: FEDERAL
Approval Date: 1/19/2011

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

Commingle:
In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

API Well No: 43047514500000

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 05 2010 2011

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. UTU38419
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. BONANZA 1023-6D1AS
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP Contact: GINA T BECKER Mail: GINA.BECKER@ANADARKO.COM	9. API Well No. 43-047-51450
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086
	10. Field and Pool, or Exploratory NATURAL BUTTES BONANZA
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface Lot 3 904FNL 1942FWL 39.98276 N Lat, 109.37191 W Lon At proposed prod. zone Lot 4 195FNL 1054FWL 39.98470 N Lat, 109.37510 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB SME: BLM
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 46.5 MILES SOUTH OF VERNAL, UTAH	12. County or Parish UINTAH / 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 195	16. No. of Acres in Lease 516.80 / 17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 814	19. Proposed Depth 8802 MD 8612 TVD / 20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 5150 GL	22. Approximate date work will start 06/30/2011 / 23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 01/04/2011
Title REGULATORY ANALYST II		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date OCT 04 201
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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OCT 12 2011
DIV. OF OIL, GAS & MINING

Additional Operator Remarks (see next page)

Electronic Submission #100031 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/05/2011 (11RRH0224AE)

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

10RRH0283AE NOS 4/26/2010

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore**	**Location:**	**Lot 3, Sec. 6, T10S, R23E**
Well No:	**1023-6D1AS**	**Lease No:**	**UTU-38419**
API No:	**43-047-51450**	**Agreement:**	**N/A**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COA's

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.

- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NOx per horsepower-hour.

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.

- A permitted paleontologist is to be present to monitor construction during all surface disturbing actives at Location 1023-6C: examples include the following building of the well pad, access road, and pipelines.

- *Discovery Stipulation*: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU38419

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-6D1AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047514500000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0904 FNL 1942 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☑ SPUD REPORT Date of Spud: 11/22/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX. SPUD WELL LOCATION ON NOV. 22, 2011 AT 23:00 HRS.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		11/28/2011

RECEIVED Nov. 28, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-6D1AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047514500000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0904 FNL 1942 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☑ SPUD REPORT Date of Spud: 11/22/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX. SPUD WELL LOCATION ON NOV. 22, 2011 AT 23:00 HRS.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		11/28/2011

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number BONANZA 1023-6D1AS
Qtr/Qtr NE/NW Section 6 Township 10S Range 23E
Lease Serial Number UTU-38419
API Number 4304751450

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/23/2011 1000 HRS. AM ☑ PM ☐

Casing – Please report time casing run starts, not cementing times.

☑ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

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NOV 2 2 2011
DIV. OF OIL, GAS & MINING

Date/Time 12/03/2011 0800 HRS AM ☑ PM ☐

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT ~~LOVEL YOUNG AT 435.781.7051 FOR MORE~~

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751449	BONANZA 1023-6C4BS		NENW	6	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18318	11/22/2011			11/30/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/22/2011 AT 17:00 HRS. BHL = NENW

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751448	BONANZA 1023-6C1CS		NENW	6	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18319	11/22/2011			11/30/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/22/2011 AT 20:30 HRS. BHL = NENW

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751450	BONANZA 1023-6D1AS		NENW	6	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18320	11/22/2011			11/30/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/22/2011 AT 23:00 HRS. BHL = NWNW

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE
Name (Please Print)
Jaime Scharnowske
Signature
REGULATORY ANALYST
Title
11/28/2011
Date

RECEIVED
NOV 28 2011
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-6D1AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047514500000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0904 FNL 1942 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 12/7/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON DEC. 5, 2011. DRILLED SURFACE HOLE TO 2430'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 12/8/2011

RECEIVED Dec. 08, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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FOOTAGES AT SURFACE:
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COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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The operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for closed loop drilling option, surface hole size change and production casing changes. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		12/12/2011

RECEIVED Dec. 12, 2011

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-6D1AS

Surface: 904 FNL / 1942 FWL NENW
BHL: 195 FNL / 1054 FWL NWNW

Section 6 T10S R23E

Uintah County, Utah
Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,246'	
Birds Nest	1,515'	Water
Mahogany	1,882'	Water
Wasatch	4,285'	Gas
Mesaverde	6,446'	Gas
MVU2	7,428'	Gas
MVL1	8,009'	Gas
TVD	8,612'	
TD	8,802'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

RECEIVED Dec. 12, 2011

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8612' TVD, approximately equals 5,512 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,605 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

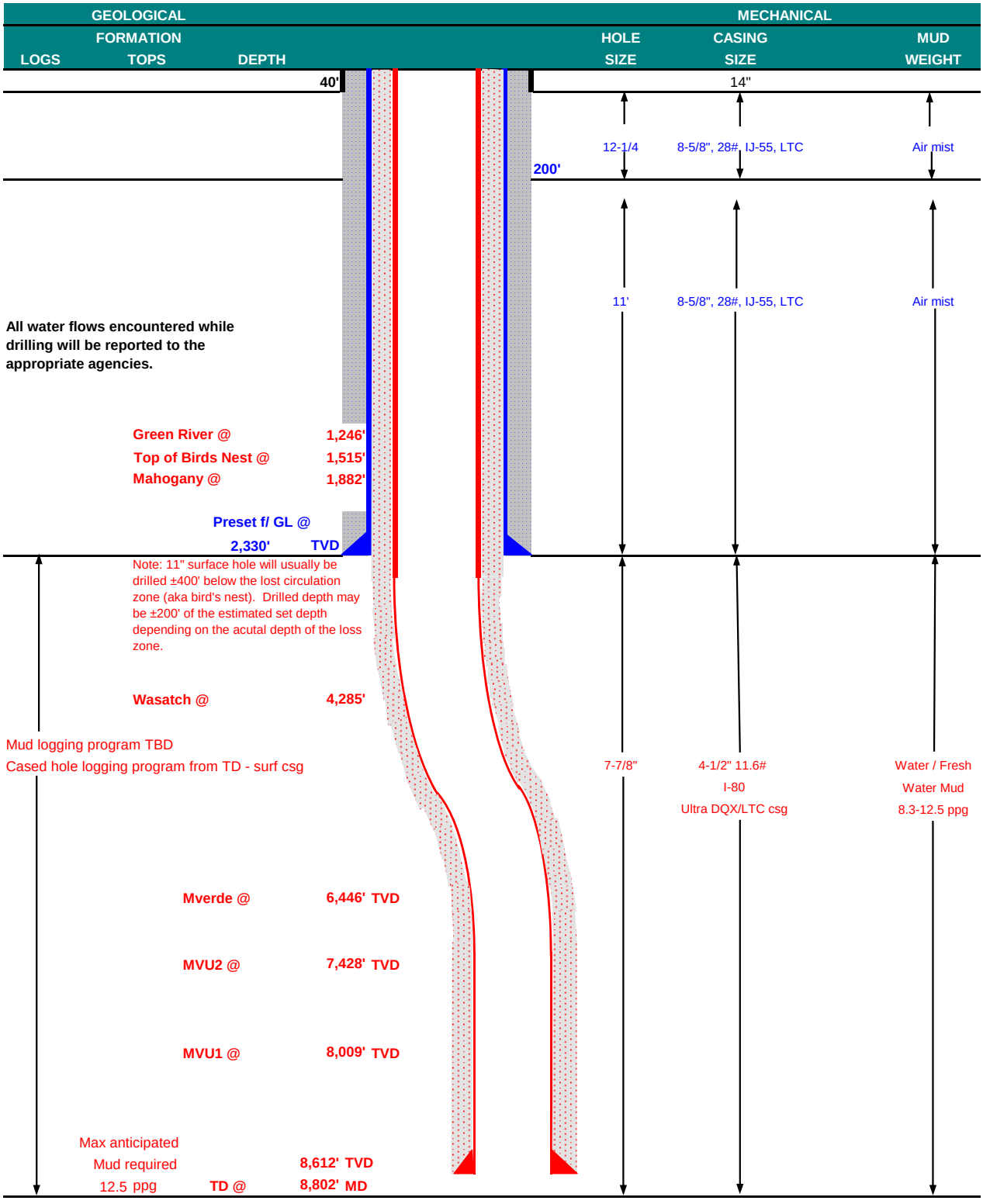
10. Other Information:

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 12, 2011	
WELL NAME	**BONANZA 1023-6D1AS**		TD	8,612' TVD	8,802' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,149'
SURFACE LOCATION	NENW 904 FNL 1942 FWL	Sec 6	T 10S	R 23E	
	Latitude: 39.982757	Longitude: -109.371912		NAD 83	
BTM HOLE LOCATION	NWNW 195 FNL 1054 FWL	Sec 6	T 10S	R 23E	
	Latitude: 39.984700	Longitude: -109.375096		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC COLLAPSE	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,330	28.00	IJ-55	LTC	2.32	1.72	6.09	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.13		3.23
	4-1/2"	5,000	to	8,802'	11.60	I-80	LTC	1.11	1.13	6.25	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,830'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,782'	Premium Lite II +0.25 pps	280	20%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel	1,190	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

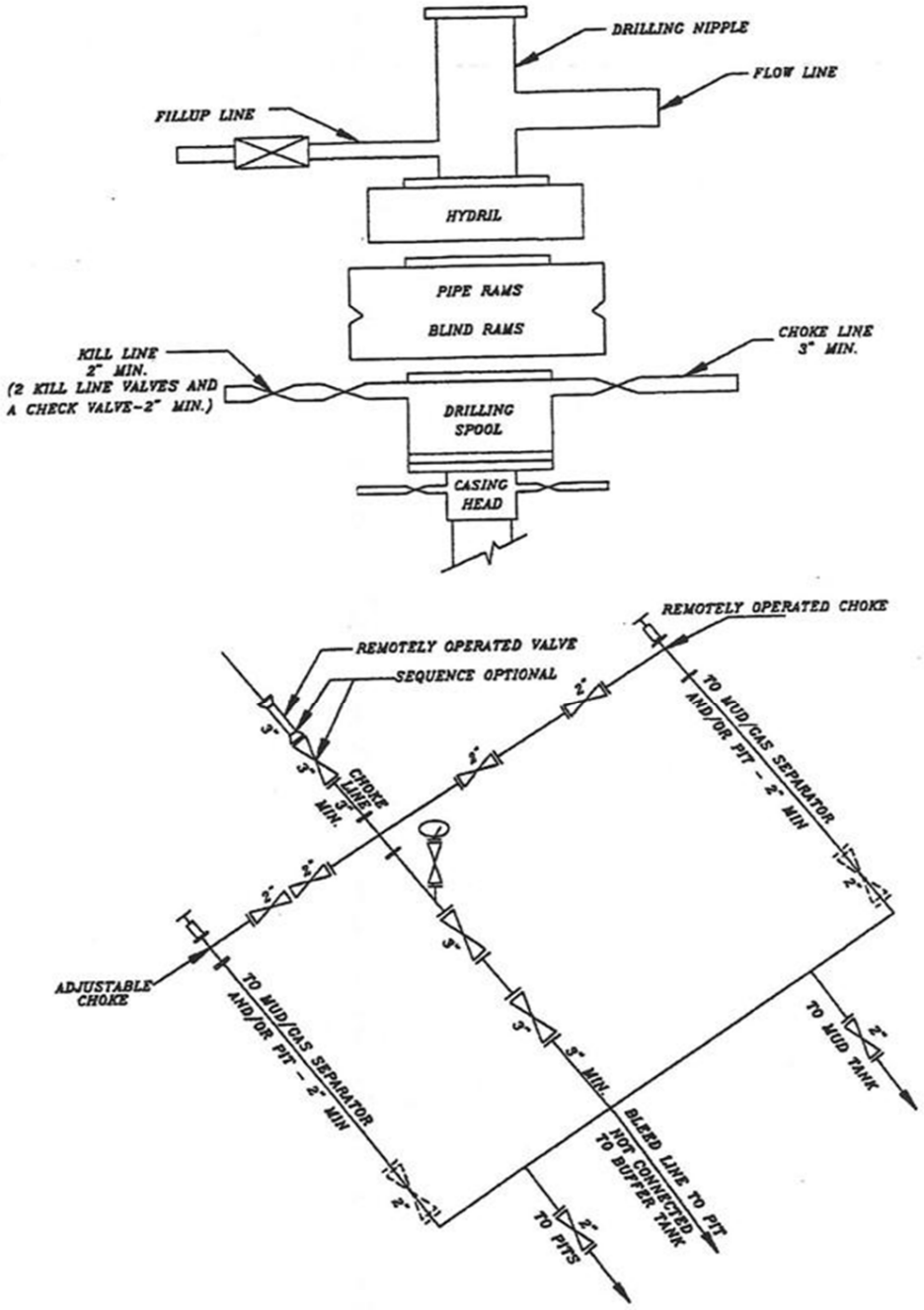
DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

EXHIBIT A
BONANZA 1023-6D1AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

RECEIVED Dec. 12, 2011

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

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✓ DRILLING REPORT Report Date: 1/3/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
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MIRU ROTARY RIG. FINISHED DRILLING FROM 2430' TO 8835' ON JAN. 2, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 146 ON JAN. 3, 2012 @ 15:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY
01/04/2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		1/4/2012

RECEIVED Jan. 04, 2012

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UTU38419

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-6D1AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047514500000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0904 FNL 1942 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/28/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON February 28, 2012 AT 6:45 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 01, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		2/29/2012

RECEIVED: Feb. 29, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-6D1AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047514500000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0904 FNL 1942 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 12/7/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON DEC. 5, 2011. DRILLED SURFACE HOLE TO 2430'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 12/8/2011

RECEIVED Dec. 08, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
See Atchmt	See Atchmt						
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
	99999	18519				5/1/2012	

Comments: Please see attachment with list of Wells in the Ponderosa Unit. 5/30/2012
lwsmvd

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED
MAY 21 2012
Div. of Oil, Gas & Mining

Cara Mahler
Name (Please Print)

Signature

REGULATORY ANALYST
Title

5/21/2012
Date

(5/2000)

well_name	sec	twp	rng	api	entity		lease	well	stat	qtr_qtr	bhl	surf	zone	a_stat	l_num	op_no
SOUTHMAN CANYON 31-3	31	090S	230E	4304734726	13717		1	GW	P	SENW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CANYON 31-4	31	090S	230E	4304734727	13742		1	GW	S	SESW		1	WSMVD	S	UTU-33433	N2995
SOUTHMAN CYN 31-2X (RIG SKID)	31	090S	230E	4304734898	13755		1	GW	P	NWNW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31J	31	090S	230E	4304735149	13994		1	GW	P	NWSE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31B	31	090S	230E	4304735150	13953		1	GW	P	NWNE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31P	31	090S	230E	4304735288	14037		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31H	31	090S	230E	4304735336	14157		1	GW	P	SENE		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31O	31	090S	230E	4304737205	16827		1	GW	P	SWSE		1	MVRD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31K	31	090S	230E	4304737206	16503		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31G	31	090S	230E	4304737208	16313		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31E	31	090S	230E	4304737209	16521		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31A	31	090S	230E	4304737210	16472		1	GW	P	NENE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31C	31	090S	230E	4304737227	16522		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-1G	01	100S	230E	4304735512	14458		1	GW	P	SWNE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1A	01	100S	230E	4304735717	14526		1	GW	P	NENE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1E	01	100S	230E	4304735745	14524		1	GW	P	SWNW		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1C	01	100S	230E	4304735754	14684		1	GW	P	NENW		1	MVRD	P	U-40736	N2995
BONANZA 1023-1K	01	100S	230E	4304735755	15403		1	GW	P	NESW		1	MVRD	P	U-38423	N2995
BONANZA 1023-1F	01	100S	230E	4304737379	16872		1	GW	P	SENW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1B	01	100S	230E	4304737380	16733		1	GW	P	NWNE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1D	01	100S	230E	4304737381	16873		1	GW	P	NWNW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1H	01	100S	230E	4304737430	16901		1	GW	P	SENE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1L	01	100S	230E	4304738300	16735		1	GW	P	NWSW		1	MVRD	P	UTU-38423	N2995
BONANZA 1023-1J	01	100S	230E	4304738302	16871		1	GW	P	NWSE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1I	01	100S	230E	4304738810	16750		1	GW	P	NESE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-2E	02	100S	230E	4304735345	14085		3	GW	P	SWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2C	02	100S	230E	4304735346	14084		3	GW	P	NENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2A	02	100S	230E	4304735347	14068		3	GW	P	NENE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2G	02	100S	230E	4304735661	14291		3	GW	P	SWNE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O	02	100S	230E	4304735662	14289		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2I	02	100S	230E	4304735663	14290		3	GW	S	NESE		3	WSMVD	S	ML-47062	N2995
BONANZA 1023-2MX	02	100S	230E	4304736092	14730		3	GW	P	SWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H	02	100S	230E	4304737093	16004		3	GW	P	SENE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D	02	100S	230E	4304737094	15460		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2B	02	100S	230E	4304737095	15783		3	GW	P	NWNE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2P	02	100S	230E	4304737223	15970		3	GW	P	SESE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2N	02	100S	230E	4304737224	15887		3	GW	P	SESW		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2L	02	100S	230E	4304737225	15833		3	GW	P	NWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2F	02	100S	230E	4304737226	15386		3	GW	P	SENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D-4	02	100S	230E	4304738761	16033		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O-1	02	100S	230E	4304738762	16013		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H3CS	02	100S	230E	4304750344	17426		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G3BS	02	100S	230E	4304750345	17428		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G2CS	02	100S	230E	4304750346	17429		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G1BS	02	100S	230E	4304750347	17427		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995

BONANZA 1023-2M1S	02	100S	230E	4304750379	17443		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2L2S	02	100S	230E	4304750380	17444		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K4S	02	100S	230E	4304750381	17446		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K1S	02	100S	230E	4304750382	17445		3	GW	P	SENW	D	3	WSMVD	P	ML 47062	N2995
BONANZA 4-6 *	04	100S	230E	4304734751	13841		1	GW	P	NESW		1	MNCS	P	UTU-33433	N2995
BONANZA 1023-4A	04	100S	230E	4304735360	14261		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4E	04	100S	230E	4304735392	14155		1	GW	P	SWNW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4C	04	100S	230E	4304735437	14252		1	GW	P	NENW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4M	04	100S	230E	4304735629	14930		1	GW	P	SWSW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4O	04	100S	230E	4304735688	15111		1	GW	P	SWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4I	04	100S	230E	4304735689	14446		1	GW	P	NESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4G	04	100S	230E	4304735746	14445		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4D	04	100S	230E	4304737315	16352		1	GW	P	NWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4H	04	100S	230E	4304737317	16318		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4B	04	100S	230E	4304737328	16351		1	GW	P	NWNE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4L	04	100S	230E	4304738211	16393		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4P	04	100S	230E	4304738212	16442		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4N	04	100S	230E	4304738303	16395		1	GW	P	SESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4FX (RIGSKID)	04	100S	230E	4304739918	16356		1	GW	P	SENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5O	05	100S	230E	4304735438	14297		1	GW	P	SWSE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5AX (RIGSKID)	05	100S	230E	4304735809	14243		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5C	05	100S	230E	4304736176	14729		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G	05	100S	230E	4304736177	14700		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5M	05	100S	230E	4304736178	14699		1	GW	P	SWSW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5K	05	100S	230E	4304736741	15922		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5B	05	100S	230E	4304737318	16904		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5E	05	100S	230E	4304737319	16824		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5H	05	100S	230E	4304737320	16793		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5N	05	100S	230E	4304737321	16732		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5L	05	100S	230E	4304737322	16825		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5J	05	100S	230E	4304737428	17055		1	GW	P	NWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5P	05	100S	230E	4304738213	16795		1	GW	P	SESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5N-1	05	100S	230E	4304738911	17060		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5PS	05	100S	230E	4304750169	17323		1	GW	P	NESE	D	1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G2AS	05	100S	230E	4304750486	17459		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G2CS	05	100S	230E	4304750487	17462		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3BS	05	100S	230E	4304750488	17461		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3CS	05	100S	230E	4304750489	17460		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5N4AS	05	100S	230E	4304752080	18484		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU73450	N2995
BONANZA 1023-8C2DS	05	100S	230E	4304752081	18507		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU37355	N2995
BONANZA 6-2	06	100S	230E	4304734843	13796		1	GW	TA	NESW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6C	06	100S	230E	4304735153	13951		1	GW	P	NENW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6E	06	100S	230E	4304735358	14170		1	GW	P	SWNW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6M	06	100S	230E	4304735359	14233		1	GW	P	SWSW		1	WSMVD	P	U-38419	N2995
BONANZA 1023-6G	06	100S	230E	4304735439	14221		1	GW	P	SWNE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6O	06	100S	230E	4304735630	14425		1	GW	TA	SWSE		1	WSMVD	TA	U-38419	N2995

* not moved in unit

BONANZA 1023-6A	06	100S	230E	4304736067	14775		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-6N	06	100S	230E	4304737211	15672		1	GW	P	SESW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6L	06	100S	230E	4304737212	15673		1	GW	P	NWSW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6J	06	100S	230E	4304737213	15620		1	GW	P	NWSE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6F	06	100S	230E	4304737214	15576		1	GW	TA	SENW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6P	06	100S	230E	4304737323	16794		1	GW	P	SESE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6H	06	100S	230E	4304737324	16798		1	GW	S	SENE		1	WSMVD	S	UTU-33433	N2995
BONANZA 1023-6D	06	100S	230E	4304737429	17020		1	GW	P	NWNW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6B	06	100S	230E	4304740398	18291		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-6M1BS	06	100S	230E	4304750452	17578		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1AS	06	100S	230E	4304750453	17581		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1CS	06	100S	230E	4304750454	17580		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N4BS	06	100S	230E	4304750455	17579		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I2S	06	100S	230E	4304750457	17790		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I4S	06	100S	230E	4304750458	17792		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6J3S	06	100S	230E	4304750459	17791		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6P1S	06	100S	230E	4304750460	17793		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6A2CS	06	100S	230E	4304751430	18292		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4BS	06	100S	230E	4304751431	18293		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4CS	06	100S	230E	4304751432	18294		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6C4BS	06	100S	230E	4304751449	18318		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
BONANZA 1023-6D1DS	06	100S	230E	4304751451	18316		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
FLAT MESA FEDERAL 2-7	07	100S	230E	4304730545	18244		1	GW	S	NENW		1	WSMVD	S	U-38420	N2995
BONANZA 1023-7B	07	100S	230E	4304735172	13943		1	GW	P	NWNE		1	MVRD	P	U-38420	N2995
BONANZA 1023-7L	07	100S	230E	4304735289	14054		1	GW	P	NWSW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7D	07	100S	230E	4304735393	14171		1	GW	P	NWNW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7P	07	100S	230E	4304735510	14296		1	GW	P	SESE		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7H	07	100S	230E	4304736742	15921		1	GW	P	SENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7NX (RIGSKID)	07	100S	230E	4304736932	15923		1	GW	P	SESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7M	07	100S	230E	4304737215	16715		1	GW	P	SWSW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7K	07	100S	230E	4304737216	16714		1	GW	P	NESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7E	07	100S	230E	4304737217	16870		1	GW	P	SWNW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7G	07	100S	230E	4304737326	16765		1	GW	P	SWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7A	07	100S	230E	4304737327	16796		1	GW	P	NENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7O	07	100S	230E	4304738304	16713		1	GW	P	SWSE		1	MVRD	P	UTU-38420	N2995
BONANZA 1023-7B-3	07	100S	230E	4304738912	17016		1	GW	P	NWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-07JT	07	100S	230E	4304739390	16869		1	GW	P	NWSE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7J2AS	07	100S	230E	4304750474	17494		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7J2DS	07	100S	230E	4304750475	17495		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7L3DS	07	100S	230E	4304750476	17939		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7M2AS	07	100S	230E	4304750477	17942		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2AS	07	100S	230E	4304750478	17940		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2DS	07	100S	230E	4304750479	17941		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7O4S	07	100S	230E	4304750480	17918		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7P2S	07	100S	230E	4304750482	17919		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 8-2	08	100S	230E	4304734087	13851		1	GW	P	SESE		1	MVRD	P	U-37355	N2995

BONANZA 8-3	08	100S	230E	4304734770	13843	1	GW	P	NWNW		1	MVRD	P	U-37355	N2995
BONANZA 1023-8A	08	100S	230E	4304735718	14932	1	GW	P	NENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8L	08	100S	230E	4304735719	14876	1	GW	P	NWSW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8N	08	100S	230E	4304735720	15104	1	GW	P	SESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8F	08	100S	230E	4304735989	14877	1	GW	S	SENW		1	WSMVD	S	UTU-37355	N2995
BONANZA 1023-8I	08	100S	230E	4304738215	16358	1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8K	08	100S	230E	4304738216	16354	1	GW	P	NESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8M	08	100S	230E	4304738217	16564	1	GW	P	SWSW		1	MVRD	P	UTU-37355	N2995
BONANZA 1023-8G	08	100S	230E	4304738218	16903	1	GW	P	SWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8E	08	100S	230E	4304738219	16397	1	GW	P	SWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8C	08	100S	230E	4304738220	16355	1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B	08	100S	230E	4304738221	16292	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8H	08	100S	230E	4304738222	16353	1	GW	P	SENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8O	08	100S	230E	4304738305	16392	1	GW	P	SWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B-4	08	100S	230E	4304738914	17019	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8A1DS	08	100S	230E	4304750481	17518	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4BS	08	100S	230E	4304750483	17519	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B1AS	08	100S	230E	4304750484	17520	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B2AS	08	100S	230E	4304750485	17521	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O2S	08	100S	230E	4304750495	17511	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J1S	08	100S	230E	4304750496	17509	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3S	08	100S	230E	4304750497	17512	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J3	08	100S	230E	4304750498	17510	1	GW	P	NWSE		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C4CS	08	100S	230E	4304750499	17544	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D2DS	08	100S	230E	4304750500	17546	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D3DS	08	100S	230E	4304750501	17545	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3DS	08	100S	230E	4304750502	17543	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4CS	08	100S	230E	4304751131	18169	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B3BS	08	100S	230E	4304751132	18167	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C1AS	08	100S	230E	4304751133	18166	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G3AS	08	100S	230E	4304751134	18168	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2AS	08	100S	230E	4304751135	18227	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3BS	08	100S	230E	4304751136	18227	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4AS	08	100S	230E	4304751137	18224	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4DS	08	100S	230E	4304751138	18225	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J2CS	08	100S	230E	4304751139	18226	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G4DS	08	100S	230E	4304751140	18144	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H2DS	08	100S	230E	4304751141	18142	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H3DS	08	100S	230E	4304751142	18143	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H4DS	08	100S	230E	4304751143	18141	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8I4BS	08	100S	230E	4304751144	18155	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J4BS	08	100S	230E	4304751145	18154	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P1AS	08	100S	230E	4304751146	18156	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2BS	08	100S	230E	4304751147	18153	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P4AS	08	100S	230E	4304751148	18157	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2DS	08	100S	230E	4304751149	18201	1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995

BONANZA 1023-8E3DS	08	100S	230E	4304751150	18200		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K1CS	08	100S	230E	4304751151	18199		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K4CS	08	100S	230E	4304751152	18198		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8L3DS	08	100S	230E	4304751153	18197		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2AS	08	100S	230E	4304751154	18217		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2DS	08	100S	230E	4304751155	18216		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N2BS	08	100S	230E	4304751156	18218		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3CS	08	100S	230E	4304751157	18254		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N3DS	08	100S	230E	4304751158	18215		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O4AS	08	100S	230E	4304751159	18252		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2CS	08	100S	230E	4304751160	18251		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P3CS	08	100S	230E	4304751161	18253		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
CANYON FEDERAL 2-9	09	100S	230E	4304731504	1468		1	GW	P	NENW		1	MVRD	P	U-37355	N2995
SOUTHMAN CANYON 9-3-M	09	100S	230E	4304732540	11767		1	GW	S	SWSW		1	MVRD	S	UTU-37355	N2995
SOUTHMAN CANYON 9-4-J	09	100S	230E	4304732541	11685		1	GW	S	NWSE		1	MVRD	S	UTU-37355	N2995
BONANZA 9-6	09	100S	230E	4304734771	13852		1	GW	P	NWNE		1	MVRD	P	U-37355	N2995
BONANZA 9-5	09	100S	230E	4304734866	13892		1	GW	P	SESW		1	MVRD	P	U-37355	N2995
BONANZA 1023-9E	09	100S	230E	4304735620	14931		1	GW	P	SWNW		1	WSMVD	P	U-37355	N2995
BONANZA 1023-9I	09	100S	230E	4304738223	16766		1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9D	09	100S	230E	4304738306	16398		1	GW	P	NWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9J	09	100S	230E	4304738811	16989		1	GW	P	NWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9B3BS	09	100S	230E	4304750503	17965		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9B3CS	09	100S	230E	4304750504	17968		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2BS	09	100S	230E	4304750505	17966		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2CS	09	100S	230E	4304750506	17967		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 10-2	10	100S	230E	4304734704	13782		1	GW	P	NWNW		1	MVRD	P	U-72028	N2995
BONANZA 1023-10L	10	100S	230E	4304735660	15164		1	GW	P	NWSW		1	WSMVD	P	U-38261	N2995
BONANZA 1023-10E	10	100S	230E	4304738224	16501		1	GW	P	SWNW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C	10	100S	230E	4304738228	16500		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C-4	10	100S	230E	4304738915	17015		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 11-2 ✯	11	100S	230E	4304734773	13768		1	GW	P	SWNW		1	MVMCS	P	UTU-38425	N2995
BONANZA 1023-11K	11	100S	230E	4304735631	15132		1	GW	P	NESW		1	WSMVD	P	UTU-38425	N2995
BONANZA 1023-11B	11	100S	230E	4304738230	16764		1	GW	P	NWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11F	11	100S	230E	4304738232	16797		1	GW	P	SENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11D	11	100S	230E	4304738233	16711		1	GW	P	NWNW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11G	11	100S	230E	4304738235	16826		1	GW	P	SWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11C	11	100S	230E	4304738309	16736		1	GW	P	NENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11J	11	100S	230E	4304738310	16839		1	GW	P	NWSE		1	WSMVD	P	UTU-38424	N2995
BONANZA 1023-11N	11	100S	230E	4304738311	16646		1	GW	P	SESW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11M	11	100S	230E	4304738312	16687		1	GW	P	SWSW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11L	11	100S	230E	4304738812	16987		1	GW	P	NWSW		1	WSMVD	P	UTU-38424	N2995
NSO FEDERAL 1-12	12	100S	230E	4304730560	1480		1	GW	P	NENW		1	MVRD	P	UTU-38423	N2995
WHITE RIVER 1-14	14	100S	230E	4304730481	1500		1	GW	S	NENW		1	MVRD	S	U-38427	N2995
BONANZA 1023-14D	14	100S	230E	4304737030	16799		1	GW	P	NWNW		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-14C	14	100S	230E	4304738299	16623		1	GW	P	NENW		1	MVRD	P	UTU-38427	N2995
BONANZA FEDERAL 3-15	15	100S	230E	4304731278	8406		1	GW	P	NENW		1	MVRD	P	U-38428	N2995

✯ not moved into unit

BONANZA 1023-15H	15	100S	230E	4304738316	16688	1	GW	P	SENE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15J	15	100S	230E	4304738817	16988	1	GW	P	NWSE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15H4CS	15	100S	230E	4304750741	17492	1	GW	P	NESE	D	1	MVRD	P	UTU 38427	N2995
BONANZA 1023-15I2AS	15	100S	230E	4304750742	17493	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15I4BS	15	100S	230E	4304750743	17490	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15P1BS	15	100S	230E	4304750744	17491	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
LOOKOUT POINT STATE 1-16	16	100S	230E	4304730544	1495	3	GW	P	NESE		3	WSMVD	P	ML-22186-A	N2995
BONANZA 1023-16J	16	100S	230E	4304737092	15987	3	GW	OPS	NWSE		3	WSMVD	OPS	ML-22186-A	N2995
BONANZA 1023-17B	17	100S	230E	4304735747	15165	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17C	17	100S	230E	4304738237	16585	1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17D3S	17	100S	230E	4304750511	17943	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E2S	17	100S	230E	4304750512	17944	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3AS	17	100S	230E	4304750513	17945	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3CS	17	100S	230E	4304750514	17946	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-18G	18	100S	230E	4304735621	14410	1	GW	P	SWNE		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18B	18	100S	230E	4304735721	14395	1	GW	P	NWNE		1	WSMVD	P	U-38421	N2995
BONANZA 1023-18DX (RIGSKID)	18	100S	230E	4304736218	14668	1	GW	P	NWNW		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18A	18	100S	230E	4304738243	16625	1	GW	P	NENE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18F	18	100S	230E	4304738244	16624	1	GW	P	SENW		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18E	18	100S	230E	4304738245	16645	1	GW	P	SWNW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18C	18	100S	230E	4304738246	16734	1	GW	P	NENW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18G-1	18	100S	230E	4304738916	17135	1	GW	P	SWNE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18D3AS	18	100S	230E	4304750448	17498	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18D3DS	18	100S	230E	4304750449	17499	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E2DS	18	100S	230E	4304750450	17497	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E3AS	18	100S	230E	4304750451	17496	1	GW	P	SENW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L2S	18	100S	230E	4304750520	18111	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L3S	18	100S	230E	4304750521	18110	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3AS	18	100S	230E	4304751061	18112	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3BS	18	100S	230E	4304751063	18113	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2AS	18	100S	230E	4304751064	18117	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2DS	18	100S	230E	4304751065	18116	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2AS	18	100S	230E	4304751066	18114	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2DS	18	100S	230E	4304751067	18115	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-10F	10	100S	230E	4304738225	16565		GW	P	SENW			MVRD	P	UTU 72028	N2995
BONANZA 1023-6D1AS	6	100S	230E	4304751450	18320		GW	P	NENW	D		WSMVD	P	UTU 38419	N2995
BONANZA 1023-6C1CS	6	100S	230E	4304751448	18319		GW		NENW	D				UTU 38419	N2995
BONANZA 1023-6D3AS	6	100S	230E	4304751452	18317		GW	P	NENW	D		WSMVD	P	UTU 38419	N2995